

Colorado Agricultural College Bulletin

UNIVERSITY OF ILLINOIS

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The
Fort Lewis
School of
Agriculture

Hesperus
Colorado

April 9 to
Sept. 28, 1917

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Administrative Bureau

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No. 2

The Fort Lewis School of Agriculture, Mechanic and Household Arts

HESPERUS, COLORADO



Term, April 9 to September 28, 1917



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The Fort Lewis School

Beside the clear La Plata, which flows through the cool shade of innumerable spreading cottonwood trees, and almost at the foot of the La Plata Mountains, is situated the Fort Lewis School of Agriculture, Mechanic and Household Arts.

One could not conceive a more admirable location for a summer school for young farmers, home makers and teachers. The days are never oppressive and the nights are always cool and refreshing. One finds conditions for summer study unsurpassed.

The Purpose of the School

The Fort Lewis property was given the State of Colorado by the United States Government. The General Assembly, in providing for its support, directed that it be a part of the Agricultural College system of the State, and provided for the establishment of a school of Agriculture, Mechanic and Household Arts, where young men and women might be trained to do more efficient work on the farm, in the shops, in the home, and in the rural schools. Incidentally, preparatory training is given those who may wish to enter college.

It is the aim of the school to produce efficient men and capable women who shall be real helpers to the communities in which they live.

Dormitories

Students room in the dormitories. Each student cares for his own room and supplies all bedding above the mattress and necessary towels.

Equipment

The school is supplied with well bred hogs, sheep, cattle, horses and chickens for the use of the stock judging classes.

The shops are well equipped with tools, work benches, forges, anvils and lathes, and the laboratories are supplied with material necessary for work in physics, chemistry, botany and other sciences.

The kitchens, sewing room and dairy have the equipment necessary for good work in household arts and dairy subjects.

Life at Fort Lewis

Students have breakfast at 6:30 a. m. and pass to classrooms and shops at 7:30. The noon-day meal is served at 12 m., and the evening meal at 6 p. m. At 7:15 students pass to the assembly hall where they pursue their studies under the supervision of one of the instructors. They are dismissed at 9:30 and the lights are turned off at 10:15.



An Evening Meal on the Bank of the La Plata River

There is a student dance one a month, a meeting of the Ammons Society once in two weeks, frequent parties, beef steak fries on the banks of the La Plata, field day athletic events, hikes to the mountains and other diversions.

Instructors are with the students much of the time, and the spirit of the school is splendid.

There are many opportunities for students to earn money to apply on their expense account. Girls aid in the kitchen, dining room, laundry, dormitory and office, and the boys do farm, garden, shop and janitor work. Not only do students get the information ordinarily gleaned from text books, but they get practical training for farm and household work and receive pay for the time spent in learning.

The cost of board, room, laundry, text books, etc., is exceptionally low, and when from this is deducted the amount that a student earns, there is little to prevent an energetic boy or girl from attending, even if his parents have limited means of support. There are few schools in which one may secure such valuable training at so small an expenditure of money.

The School Surroundings

Pure water, abundant sunshine, fertile soil, cheap fuel, cheap lumber abound in the Fort Lewis district. Fort Lewis is near the famous orchards of the Montezuma Valley and of Farmington and Aztec, N. M., and is the center of great stretches of fertile farming land. The nearest railroad station is Hesperus, five miles north of Fort Lewis, on the Rio Grande Southern Railway. Durango, the county seat of La Plata County, is fourteen miles east of Hesperus.

From 1882 until 1892 the Fort was the headquarters of twelve companies of the United States army. An Indian School was conducted at the fort from 1892 until 1910.

In 1910 the 6,400 acres of land, with attached buildings, water rights, coal rights and fine timber, were given to the State of Colorado, by the national government, on the condition that an educational institution be maintained there where Indian children are admitted on the same basis as white children.

The Eighteenth Colorado General Assembly accepted the conditions laid down, and, accordingly, in 1911, the Fort Lewis School of Agriculture, Mechanic and Household Arts, was established as a branch of the Colorado Agricultural College and placed under the direction of the State Board of Agriculture. The School was opened for students October 2, 1911.

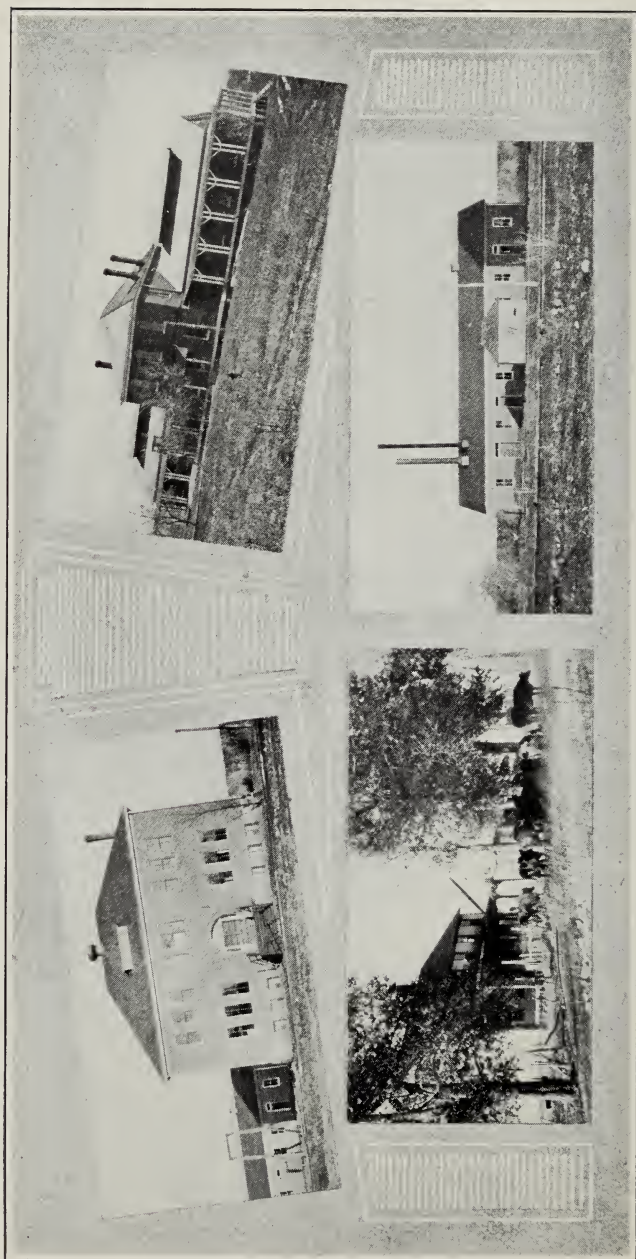
The Twentieth General Assembly provided a levy of two hundredths of a mill for the support of the school, and provided for the establishment of a Rural Teachers' Training Course. This act of the General Assembly insures the financial support of the school and extends its functions so as to make it more useful to the Southwest and to the State generally.

What Fort Lewis Looks Like

Fort Lewis and environs present a most attractive appearance. The La Plata mountains are always visible; the La Plata River, its banks lined with stately cottonwoods and yellow pines, flows through the reserve, and the east and west portions are covered with pine forests.



The Animas Valley Near Durango



Gymnasium
Power House and Machine Shop

Boys' Dormitory
Bringing Home the Cows

Nineteen Large Buildings on Campus

There are nineteen buildings, built of stone, brick or wood. The buildings are commodious, convenient in arrangement, electric lighted, sanitary and supplied with water. The building equipment includes the boys' dormitory, dining hall, shops and power house, dairy building, girls' dormitory, gymnasium, six residences, two barns, silo and a number of storehouses. The schoolhouse, the boys' dormitory, dining hall and the office are steam heated.

Table Provided With Best of Meats, Vegetables and Dairy Products

No matter to what idealistic heights the pursuit of knowledge takes us, the cravings of the inner man always accompany us, and we must come down to the commonplace subject of eating. Nothing is left to be desired in this respect at Fort Lewis. Students and instructors take their meals at a central dining room, where is served home-butchered pork and beef, fresh vegetables from the garden, butter, cream, milk and buttermilk, fresh from the School's own dairy. The School is largely self-supporting from the standpoint of food.

Chance to Be Independent by Paying Your Way With Work

To the student who is compelled to work his way through school, or prefers to do so from a spirit of independence, the Fort Lewis School of Agriculture holds an added interest, for there is excellent opportunity to earn money while preparing oneself there.

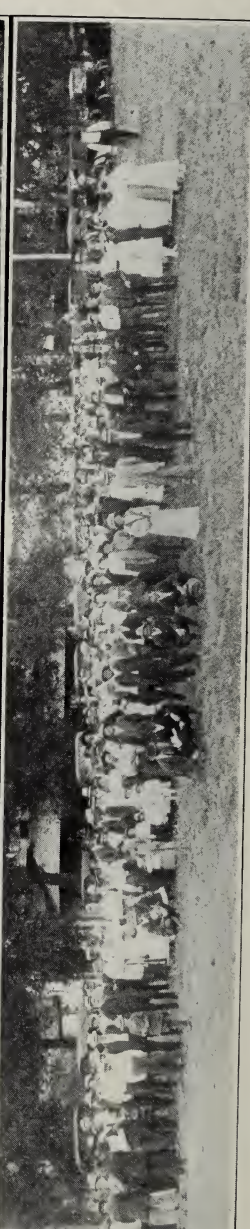
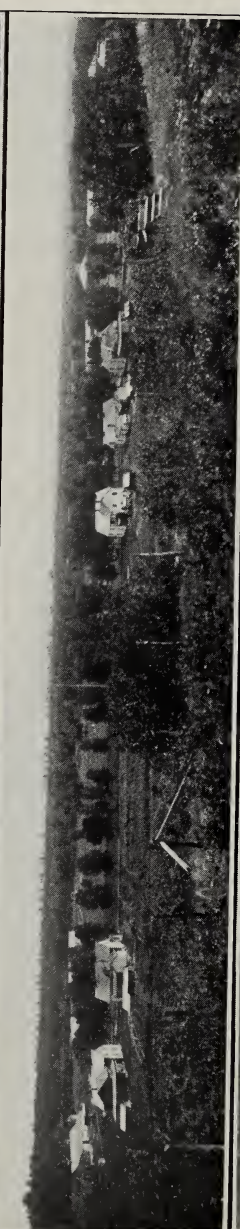
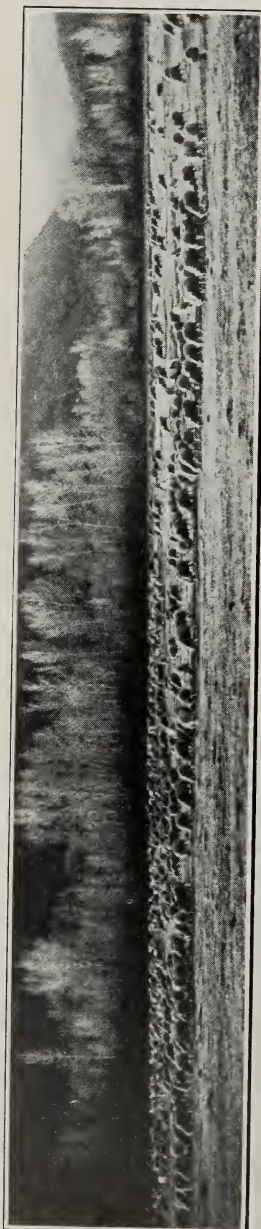
Boys may earn from \$50 to \$125 and girls from \$25 to \$50 during the six months.

Athletics

The school has a room fairly well equipped with gymnasium apparatus. During the summer there are basketball, baseball, running and vaulting contests. Field day meets are held once a month.



School Buildings at Fort Lewis



Top, A Typical Grazing Scene

Center, The Campus

Lower, A Group of La Plata County Visitors at Fort Lewis



Stock Corrals

Military Drill

Military drill in uniform is required of all boys enrolled. Three periods a week for 24 weeks are devoted to drill. Officers are selected by examination and work is given in the manual of arms, squad and company formations.

Uniforms

Uniforms for military drill are required. Uniforms must be worn during recitation hours and on dress occasions. Overalls and jumpers are required in shop work. White caps and aprons are required in dairy work, and aprons in the chemistry laboratory. The boys' uniforms are made of better material than are suits ordinarily selling for twice the amount. They wear well and are very neat.



Montezuma County Visitors Inspecting the Experimental Plots

Literary Work

The school has two literary societies, the Ammons Society, of which all students of the school are members; and the Senior Debating Society, of which seniors and juniors may become members. Valuable practice in public speaking and debating is gained, through the appearance upon the programs in these two societies.

Papers and Magazines

The School subscribes for the Country Gentleman, Wallace's Farmer, Technical World, Good Housekeeping, Literary Digest, Current Events, Pathfinder, Hoard's Dairyman, World's Work, Ladies Home Journal, National Geographic and Youth's Companion. Complimentary copies of the Field and Farm, Bayfield Blade, Western Farm Life, Ignacio Chieftain and the Collegian are received.

Sessions

School is in session six days in the week, with general assembly for study from 7 to 9:30 p. m. School is closed frequently on Saturday or Monday afternoons for recreation and games.

"Field Days"

On "Field days" there will be opportunities to test seed grain, alfalfa, potatoes and milk for the homefolks. Grains may be treated and machinery and tools repaired. Boys, who live near, may, under certain conditions, work at home under supervision on field day.

Library

The School is accumulating a very good library. Bailey's Encyclopedia of Agriculture, the New International Encyclopedia, the Standard Dictionary and a number of other books have recently been added. It has the helpful service, also, of the Colorado Traveling Library.

Sunday Services

Interdenominational Sunday School services are held each Sunday morning at 10:30 o'clock. Preaching services are frequently held on Sunday afternoon or evening.



An Alfalfa Field

Courses

1. A three-year course in Agriculture. Term of 1917, April 9th to September 28th.
2. A three-year course of Training for Rural Teachers. Term of 1917, April 9th to September 28th.
3. A three-year course in Household Arts for girls. Term of 1917, April 9th to September 28th.
4. A nine-week course in Agriculture for High School Students. Term of 1917, June 11th to August 18th.
5. A nine-week course of Training for Rural Teachers. Term of 1917, June 11th to August 18th.
6. A four-year course for those who wish to prepare for college entrance.

Sections.—The boys taking the Agricultural courses will be divided into two sections, Section "A" and Section "B". Section "A" will have classroom work on Monday, Wednesday and Friday and field work on Tuesday, Thursday and Saturday. Section "B" will have class work on Tuesday, Thursday and Saturday and field work on Monday, Wednesday and Friday.

Relation With Other Schools.—Students may attend the Fort Lewis School of Agriculture in the summer and the Colorado School of Agriculture at Fort Collins in the winter and complete the course in eighteen months, or a student may attend high school in winter and the Fort Lewis School in summer.

Admission.—Students who are at least fifteen years of age and who have satisfactorily completed the eighth grade, will be admitted without examination.

An examination in Arithmetic, United States History, English, Grammar, Geography, Reading and Spelling may be required of all prospective students who have not completed the eighth grade.

Due credit will be given for work taken in high school.

School Calendar

Entrance examinations and registration, April 9th.

First term begins April 9th.

Decoration Day—May 30th.

Special courses for high school students and teachers begin June 11th.

Summer vacation—June 30th to July 9th.

Second term begins July 9th.

Special courses for high school students and teachers close August 18th.

Second term closes September 28th.

Enroll Early

It will not be possible to accomodate more than 80 male students during the summer of 1917 and all who plan to attend are urged to enroll at an early date.

Teachers' Certificates

All students who have taken the pedagogical subjects have received teachers' certificates at the La Plata county examinations.

Course In Agriculture

April 9 to September 28, 1917

Classroom Work Three Days a Week--Field Work Three Days a Week

FIRST YEAR

First Term	Periods a week	Second Term	Periods a week
Bench Work	(10)	Forge Work	(10)
Botany and Horticulture	6	Botany and Insect Study	6
Stock Judging	(6)	Breeds of Farm Animals	6
English	5	English	5
Arithmetic	5	Arithmetic	5
Military Drill	(3)	Military Drill	(3)

SECOND YEAR

First Term	Periods a week	Second Term	Periods a week
Field Crops	5	Crop Raising	5
Chemistry	3 (4)	Chemistry	3-4
English	5	English	5
Farm Mechanics	5	Farm Mechanics	5
Algebra	5	Algebra	5
or		or	
Farm Practice	6	Farm Practice	6
Military Drill	(3)	Military Drill	(3)

THIRD YEAR

First Term	Periods a week	Second Term	Periods a week
Diseases of Farm Animals	5	Stock Feeding	5
Soils	3	Farm Management	4
Soils Laboratory	4	Farm Accounts	(2)
Animal Breeding	5	Dairying	6
Literature	5	Literature	5
Physics	3-4	Physics	3-4
Military Drill	(3)	Military Drill	(3)

FOURTH YEAR

For those who desire to enter college.

First Term	Periods a week	Second Term	Periods a week
Geometry	5	Geometry	5
General History	5	General History	5
Economics and Civics	5	Economics and Civics	5
English	5	English	5

Course In Rural Teachers' Training and Domestic Science

April 17 to September 30, 1917

FIRST YEAR

First Term	Periods a week	Second Term	Periods a week
Botany	6	Botany and Insect Study	6
Cooking	10	Cookery	10
English	5	English	5
Arithmetic	5	Arithmetic	5
Manual Training	10	Home Nursing	6
Gymnastics	3	Gymnastics	3

SECOND YEAR

First Term	Periods a week	Second Term	Periods a week
American History	5	American History and Civics	5
Algebra	5	Algebra	5
English	5	English	5
Chemistry	3-4	Chemistry	3-4
Sewing	10	Geography	5
Gymnastics	3	Gymnastics	3

THIRD YEAR

First Term	Periods a week	Second Term	Periods a week
Literature	5	Literature	5
Theory and Practice	6	School Management and	
Special Methods	6	School Law	6
Psychology	5	Special Methods	6
Physics	3-4	Observation and Practice	10
Gymnastics	3	Physics	3-4
		Gymnastics	3

Students expecting to enter college will be required to take the work of the fourth year.

FOURTH YEAR

First Term	Periods a week	First Term	Periods a week
Physics	3 (4)	Physics	3 (4)
Geometry	5	Geometry	5
General History	5	General History	5
English	5	English	5

Course of Study for Young Women**Domestic Science****FIRST YEAR**

First Term	Periods a week	Second Term	Periods a week
Hand Sewing	(10)	Machine Sewing	(10)
Cookery	(10)	Cookery	(10)
English	5	Home Nursing	6
Arithmetic	5	English	5
Gymnastics	(3)	Arithmetic	5

SECOND YEAR

First Term	Periods a week	Second Term	Periods a week
Advanced Cookery	(8)	Dairying	(2)
The House and Household Management	2	The House and Household Management	4
Millinery and Embroidery	(4)	Millinery and Embroidery	(4)
Horticulture	3 (2)	Horticulture	3 (2)
English	3	English	3
Algebra	5	Algebra	5

THIRD YEAR

First Term	Periods a week	Second Term	Periods a week
Dressmaking	(6)	Serving of Meals	2 (4)
Chemistry	3	Dressmaking	(6)
Chemistry Laboratory	(4)	Entomology	3
Laundry	1 (4)	Chemistry	3
Civics	3	Chemistry Laboratory	(4)
English	3	English	3

The course in Domestic Science will be offered if called for by four or more students before April 1, 1917.



A Threshing Scene Near Fort Lewis

Agriculture

Field Crops and Crop Raising (Second Year).—Five periods a week for 24 weeks. Text, Wilson and Warburton. A study of wheat, corn, oats, barley, rye and other cereals, forage crops, alfalfa, grasses, potatoes, sugar beets and other root crops. The judging, selecting, testing and care of seeds of the different useful plants, also the different plant diseases and pests and how to treat or eradicate them; the best cultural methods, the best methods of caring for harvested crops, and other useful facts concerning the crops grown on the farm are taught.

Stock Judging (First Year).—Six periods a week for twelve weeks. Text, Purdue University Bulletin No. 29. This is a study of the typical forms and characteristics of different breeds of farm animals. Animals are brought before the classes and the students apply the information gained from texts and instructors in pointing out the desirable and undesirable qualities of each.

Breeds of Farm Animals (First Year).—Six periods a week for twelve weeks. Text, Types and Breeds of Farm Animals, Plumb. This is a study of the characteristics of the various breeds of farm animals. The school is fortunate in having pure-bred Percherons, Herefords, Shorthorns, Holsteins, Oxfords, Rambouillets, Duroc-Jerseys, Berkshires and Tamworths in addition to good grade cattle and horses. One hundred fine stereopticon slides are available for class use.

Botany, Horticulture and Insect Study (First Year).—Six periods a week for 24 weeks. Text, Baily, Green and Hunter. A study of the seed and the resulting plant and flower, together with the harmful insects



The Concrete Silo, Capacity 100 Tons

and diseases that may attack it. Attention is given to the best methods of eradicating harmful weeds and exterminating insects. Fruit growing is given particular attention.

Diseases of Farm Animals (Third Year).—Five periods a week for twelve weeks. Text, *Common Diseases of Farm Animals*, Craig. Instruction is given in the care of farm animals, how to properly care for them and guard against disease, and thus secure the best growth or greatest degree of usefulness. Also, how to recognize the common diseases, and how to nurse afflicted animals. Special attention is given to hygiene and farm sanitation.

Soils (Third Year).—Seven periods a week for twelve weeks. Text, *Soils and Soil Fertility*, Whitson and Walster. Fee, fifty cents a term. A study of plant food, preparation of the soil, physical conditions of the soil that affect soil productivity, systems of rotation, manures and commercial fertilizers and similar topics.

Stock Feeding (Third Year).—Five periods a week for twelve weeks. Text, *Productive Feeding of Farm Animals*, Woll. The value of the different crops as feed for animals is studied and balanced rations for various classes of farm animals are then worked out.

Farm Management and Farm Accounts (Third Year).—Six periods a week for twelve weeks. Text, *Farm Management*, Warren. A study of the business of farming: Why farm, cost of farming, hired help, tenants; diversified and specialized, intensive and extensive farming, size of farm, capital, equipment, cropping system, marketing and farm records and accounts.



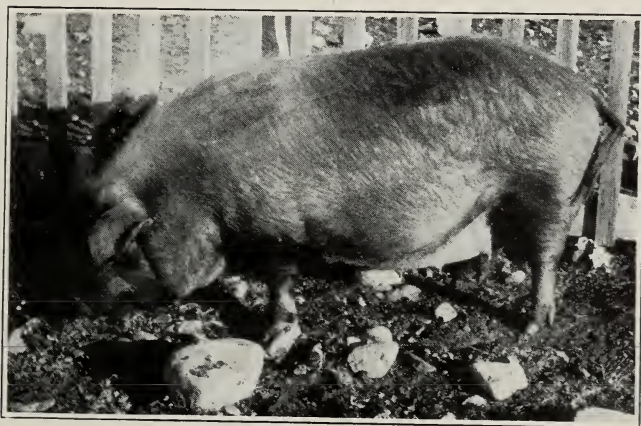
A Part of the Dairy Herd



Dairy Room

Dairying (Third Year).—Six periods a week for twelve weeks. In the dairy laboratory the students are taught the use of the Babcock tester, the lactometer, the moisture test for butter, the methods of handling milk and cream, the running and testing of various cream separators, ripening cream, churning, working, salting and printing of butter. The practical work is supplemented by lectures on composition of milk, care and use of milk and cream, separating and butter making.

Animal Breeding (Third Year).—Five periods a week for twelve weeks. The laws of heredity, variation and reversion, the principles of



A Registered Duroc



The Draft Horses

pure breeding, line breeding, in-breeding, cross-breeding, and grading up are taught under this head. The principal points to be observed in the practice of breeding, such as are incidental to selection and mating of stock, are emphasized.



Setting Strawberry Plants

Mathematics

Arithmetic (First Year).—Five periods a week for 24 weeks. Text, Milne's Complete Arithmetic. Drill upon the four fundamental operations, factoring, lowest common multiple, tests for divisability of numbers, common and decimal fractions, mensuration, denominate numbers with tables, U. S. land survey, standard time, longitude and time, percentage, profit and loss, commission and brokerage, taxes, trade discount, simple interest, bank discount, proportion and square root, measurement of hay, cisterns, silos and land. Much of the work in arithmetic will be based upon practical farm problems arising from daily field work.

Algebra (Second Year).—Five periods a week for 24 weeks. Text, Wells and Hart. The fundamental operations: Factoring, fractions, simple equations, radicals and quadratics are studied.

Geometry (Fourth Year).—Five periods a week for 24 weeks. Text, Wells Plane Geometry.

Science

Home Nursing (Second Year).—Six periods a week for twelve weeks. A study of the proper sanitary conditions that should surround school and farm houses, with special reference to sources of domestic water supply and the disposal of refuse. Physiology is studied for a good foundation for the work in hygiene and in home nursing.

Psychology.—Six periods a week for twelve weeks. Text, Outlines of Educational Psychology, Pyle. A study of the laws of heredity, habit, memory and attention as applied in teaching, and of the individualistic, social adaptive instincts and their use in the educative process.

Physics.—Three hours of class or recitation work and four hours of laboratory work per week for 24 weeks. Text, Milliken and Gale (Revised). Fee, \$1.00 a term. A study is made of simple machines, pneumatics, hydrostatics, heat, light, sound and electricity and their application to every-day problems.

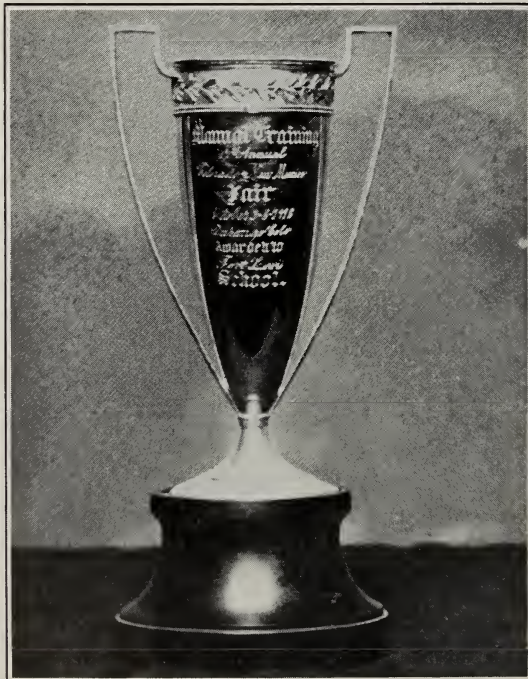
Chemistry.—Three hours class and four hours laboratory a week for 24 weeks. Text, Chemistry and Its Relation to Daily Life, Kahlenberg and Hart. Fee, \$1.50 a term. After studying the fundamental principles of pure chemistry, the application of chemistry to the farm and home life is taken up. The chemical properties and values of foods, and the chemical changes and effects due to cooking and baking are studied. The elements affecting plant growth and soil fertility are studied, and the value of manure and commercial fertilizer taken up.

Mechanic Arts

Farm Mechanics (Second Year).—Five periods a week for 24 weeks. Text, Davidson and Chase. A study of farm machinery and motors and of leveling, irrigation, cement and concrete work. The underlying principles, of farm machines of various types, a detailed study of these machines and their care, is made. The various forms of power available for farm use, such as wind mills, gas engines, steam engines, water wheels and electric motors are studied and compared.

Forge Work (First Year).—Ten periods a week for twelve weeks. Fee, \$2.00. After some preliminary work from blueprints in shaping, welding and tempering, the construction and tempering of steel tools is taken up, and plow-sharpening, making of cleavices, ice tongs, ironing doubletrees, and the making of other useful articles is taught.

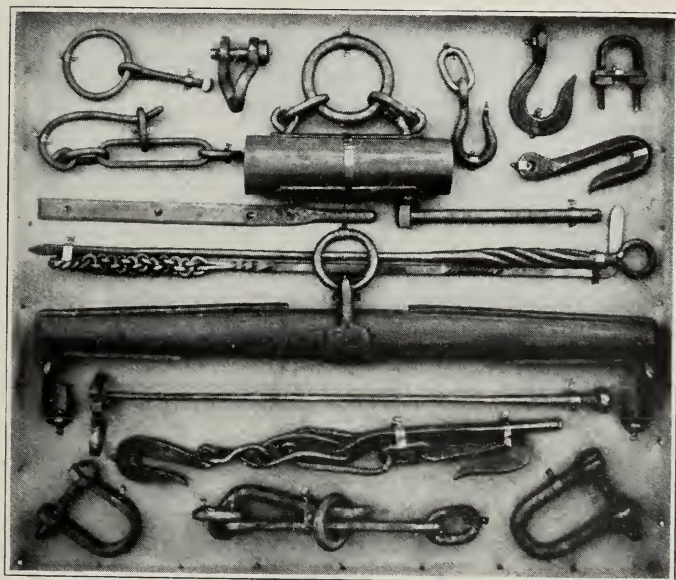
Blacksmithing.—The various forging processes in iron and steel are taught, such as bending, twisting, upsetting, drawing and welding. Chains, hooks, bolts, neckyoke centers, single-tree irons, clips and centers, and similar articles are made. Elementary work in tool steel, including the making of chisels and punches is given.



Silver Cup Awarded the Fort Lewis School by the Colorado-New Mexico Fair Association for the Best Manual Training Work



Work in Tool Steel Done by Students in Forging



Work in Iron Done by Students in Forging

Tool-smithing.—A continuation of the course in blacksmithing. The proper handling of tool steel, including forging, heat treatment and finishing, is taught, by making chisels, punches, hammers, picks and wrenches. Case-hardening of machine steel pieces, such as wrenches is also taken up.

Wood Turning.—A practical course, teaching the various methods of turning, such as spindle, face plate, pin and chuck work. The pieces made are as far as possible practical, including Indian clubs, dumb bells, rolling pins, plates, picture frames, napkin rings, cups, vases, boxes, and candle sticks. Glueing up and methods of finishing are taught.

Bench Work (First Year).—Ten periods a week for twelve weeks. Fee, \$2.00. The use and care of wood-working tools are taught. Work on exercises from blueprints is followed by the practical work, such as furniture-making, construction of window and door frames, doubletrees and eveners, gates, feeding racks and troughs and water tanks.

Manual Training (First Year).—Six periods a week for twelve weeks. Fee, \$2.00. Sloyd, clay modeling, paper cutting and folding exercises in basketry are given. Special attention is paid in designing the exercises to meet the conditions of the country school. Full advantage is taken of the value of the small boy's pocket knife in whittling exercises and of the little girl's small shears in paper cutting. The pupils are shown how to make the most of materials easily available at the country school.



Lathe Work



Girls' Manual Training Work

English and Literature

First Year.—Five periods a week for 24 weeks. Text, Reed and Kellogg's English Grammar. A study of the essentials of English grammar and elementary composition. For the boys, the work in composition consists largely of reports, outlines and descriptions of their field work.

Second Year.—Five periods a week for 24 weeks. Text, Progressive Course in English for Secondary Schools, Stebbins. A study of the correct forms in writing and speaking. Letter writing, written and oral compositions are given particular attention.

Third Year.—Five periods a week for 24 weeks. Text, Primer of American Literature, Watkins, and other books. The purpose of this course is to acquaint the pupils with our best American authors and their writings. Especial attention is given to those books which picture the beauties found in country life.

Civics

Third Year.—Five periods a week for twelve weeks. Government—local, county, state and national—is studied. This is a course of training in citizenship.

History

First Year.—Six periods a week for twelve weeks. Text, School History of the United States, Mace. Particular attention is paid to the history of agriculture and industrial development in the United States and to the methods of teaching history.

Geography

Political and Physical (First Year).—Six periods a week for twelve weeks. A good text is used in each subject. Much attention is given to map study, industrial geography and methods of teaching geography.

Domestic Science

Sewing (Second Year).—Ten periods a week for twelve weeks. Recitations and lectures are given on the selection of good materials, methods of making and using thread, needles, thimbles and tape measures, the different kinds of stitches, seams, hems, buttonholes, patching, darning and care of clothing.

The training in hand work is followed by directions in the care and use of sewing machines and the making of simple garments or articles for the home.

Dressmaking and Millinery (Third Year).—Ten periods a week for twelve weeks. The covering and lining of a simple frame, the sewing of braids, and the making of wire frames are taught; also a few of the useful stitches in embroidery, with suggestions for their combination and application. Each girl cuts out and makes two dresses, one of washable material, and the other of woolen material. Students are taught how to fit garments, also the careful finishing of seams, hems and plackets.

Cookery (First Year).—Ten periods a week for twelve weeks. The courses in cookery include a study of foods, together with explanation of the reasons for certain practices in cooking, practical lessons in plain cooking, knowledge of fuel and the use of the coal range, the gas and electric stoves. Neatness, system and speed, together with quietness are strongly emphasized in the practice work of the students.

Advanced Cookery and Serving of Meals (Second Year).—Ten periods a week for twelve weeks. The study of the relative value to the body of different food nutrients, the planning and serving of meals suitable to varying conditions.



A Group of Our Boys and Girls

Pedagogy

Theory and Practice (Third Year).—Six periods a week for twelve weeks. Good text books, dealing with the problems of instructions, drill, testing, review, methods of assigning lessons, calling on pupils and teaching the elementary school subjects, are studied.

Special Methods (Third Year).—Six periods a week for 24 weeks. The best methods of teaching, reading, arithmetic, language, geography and history are studied, discussed and illustrated.

School Management and School Law (Third Year).—Six periods a week for 12 weeks. A study of the physical environment of the pupil, general sanitation, the teacher, his preparation and his relation to the school board, parents and pupil, the school program, incentives to study, examinations, promotions and moral training. Much time is given to study of the school laws of Colorado.

Observation and Practice (Third Year).—Ten periods a week for twelve weeks. Observation of classroom instruction, and a discussion of the same, followed by actual practice work under supervision and direction.



An Indian Play by Students

The Fort Lewis Short Course for *High School Students, Teachers and Others*

June 11 to August 18, 1917

Nine Weeks

The course is designed for those who wish to secure credits that will be accepted at the Fort Lewis or the Colorado School of Agriculture, in Colorado High Schools and for those who wish to take the county teachers' examination.

Special classes under special teachers will be organized in the subjects named below, provided there have been at least **four** applications for the subject BEFORE JUNE 1, 1917. No summer school student will be expected to take fewer than two nor more than four subjects during the Short Course. As much will be accomplished in the nine weeks as in the usual twelve weeks' term.

If it is your desire to enter the school on June 11, do not fail to notify the principal of the school before June 1, naming the subjects in which you wish classes formed.

Students may select four subjects out of any one of the following groups or in special cases a total of four may be selected from different groups.

Course of Study for Fort Lewis Summer Term

First Summer

Bench Work in Wood
Forge Work
Field Crops
Stock Judging
Horticulture

Second Summer

Lathe Work in Wood
Tool Steel Work
Soils
Farm Machinery
Irrigation and Leveling
Farm Management
Stock Feeding
Stock Breeding

Teachers' Course

First Summer

Arithmetic
English
American History
General Science
Civics

Second Summer

Psychology
Theory and Art of Teaching
School Management
School Law
Special Methods in Teaching the
Common School Subjects

Course for High School Students

General History
Composition
Algebra
Civics
General Science

Regulations

Students must secure permission before leaving the grounds.

The use of tobacco is not permitted.

Students must not have firearms in their possession.

All students meet at the central study hall at 7 o'clock each evening for study, entertainment or attendance upon a religious, or literary program.

Estimated Expenses for the Session of Six Months

FOR BOYS

Board, room, laundry, book rent, per month.....	\$20.00
Uniform	12.00
Stationery	4.00
Entrance and Library Fee	5.00
Forge and Bench Fees	4.00
Incidental Expenses	10.00
Science Fees	2.00

FOR GIRLS

Board, room, laundry, book rent, per month	\$ 20.00
Gymnasium Suit	5.00
Stationery	4.00
Science Fees	4.00
Incidental Expenses	10.00
Domestic Science Fees	2.00

A fee of \$20 per year is charged to those who are not residents of Colorado.

Fees and tuition must be paid for the six months in advance. Full deposit must be made for the uniform when the measurements are made at the time of enrolling. Board and room must be paid for one month in advance. There will be no refund for board for an absence of a day or two. There will be no refund of room rent so long as the room is held, and no reduction in fees and tuition to those who come later or leave before the close of school.

A property deposit fee of three dollars is required at the time of registration.

Regular charges are made for taking students and others to and from Hesperus and Durango except when entering and leaving for vacation.

The laundry charge does not cover collars, cuffs, quilts or more than one blanket nor more than eighteen pieces a week.

Register of Students Who Have Attended The Fort Lewis School Since October, 1911

Alley, Arthur	Kansas	Hammond, Roy	Lebanon
Anderson, Esther	Fort Collins	Hare, Will	Bloomfield
*Baker, Hilliard	Hesperus	Harris, Hervey	Arriola
Baird, Laura	Breen	Harrison, Winn	Breen
Baird, Mrs. Callie	Breen	Hatch, Joseph	Fruitland, N. M.
Bonham, Lloyd	Fort Collins	Hatcher, Oscar	LaBoca
Breeden, Helen	Virginia	Hately, Dean	California
Breeden, Ralph	-----	Helton, Golda	Durango
Brimhall, Alma	Fruitland, N. M.	Hott, Powell	Tiffany
Brinkerhoff, Levi	Mancos	Hubbard, M.	Shiprock
Brinkerhoff, David	Mancos	Hughs, Willa	Hesperus
Brown, Harold	Arizona	*Hunt, Alice	Hesperus
Burgman, J. Quincy	Ignacio	Huntington, J.	Hesperus
Burns, Walter ...	Flora Vista, N. M.	Humphreys, Robert	Hesperus
Canfield, Hiram	Arriola	Jaquez, Onofre	Blanco, N. M.
Cavanass, Erma	Hesperus	Kermode, Alfred	Cortez
Cavenas, Mrs. Murial	Breen	Kimball, Carolyn	Allison
Chambers, Robert	-----	Kimball, Edith	Allison
.....	Farmington, N. M.	Kimsey, Mrs. Kate	Hesperus
Chockley, Marian	Arboles	Lieper, Harold	Illinois
Cook, Mrs. Edna	Durango	Longenbaugh, S.	Cortez
Craft, Howard	Kline	*Lundquist, Albert	Lebanon
Dale, Ellen	Redmesa	McCall, Rex	Arriola
Daniels, Tom	Pagosa Springs	McCartney, Tom	Durango
Dean, Chas	Redmesa	*McCulloch, Clay	Durango
Decker, Earl	Mancos	McCulloch, Lillie	Durango
De Lusch, Mrs. Milton....	Durango	*McCulloch, Robert	Durango
Deti, Pierene	Griffith	McEwan, Reuben	Cortez
Edwards, Alvin	Arizona	McKelva, Mrs. Elva....	Durango
Ellis, John	Mancos	McIntyre, Lizzie	Breen
*Fielding, Leonard	Mancos	*McNamee, Laughlin	La Plata
Fielding, Mary	Mancos	*Michael, Ray	Hesperus
Fielding, Mrs. Frank	Mancos	Miller, Sophia	Durango
Flaugh, Leon	Pagosa Springs	Mueller, Anna	Florida
Fredlund, Fred	Elco	Neil, Frank	Ignacio
*Fredlund, Reuben	Elco	Nelson, Frank	Durango
Fredlund, Dewey	Durango	Nicholson, Mrs. M.	Hesperus
Frazier, Vance	Durango	North, Ruth	Cortez
Glenn, Cleo	Lebanon	O'Brien, Roy	Durango
Green, Claude	Durango	Olbert, Walter	Durango
Halls, Dilworth	Mancos	Pedwell, Sylvanus	Griffith
Halls, J. Lewis	Mancos	Philo, Helen	Durango
Halls, Lillie	Redmesa	Pierce, Allen	Aztec, N. M.
Halls, Roy	Mancos	Pinkstaff, Rhoda	Aztec, N. M.
Halls, Lee	Mancos	*Pollock, Bertha	Allison
Hamilton, Will	Kline	*Pollock, Ethel	Allison
*Hammond, Platt	Mancos	Price, John M.	Mancos

Pulliam, JosephineDurango

Rathjen, RobertAztec, N. M.

*Reeder, OrinDurango

Rockwell, MabelDurango

*Roubidoux, RaymondCortez

Scott, MayFort Collins

Sever, Eugene ...Flora Vista, N. M.

Shaferhoff, JosephDurango

Simpson, PatBreen

Simpson, RoyBreen

Skelton, Arlene ...Shiprock, N. M.

Slade, ClarenceRedmesa

Slade, IdaBreen

Smith, AliceHesperus

Smith, DonaldCortez

Smith, ElsieHesperus

Smith, HiramMancos

*Snyder, PaulHesperus

Snyder, GlennHesperus

*Snyder, T. J.Dolores

Sorg, VioletDurango

*Sullivan, FrankDurango

Sullivan, JoseDurango

Stevens, ElsieBayfield

Stinson, Mrs. SusieKline

*These students have graduated.

Taylor, GeorgeIgnacio

Taylor, LeoRedmesa

Taylor, LydiaRedmesa

Thayer, D. C.Helena, Mont.,

Thomas, VirgilMancos

Thompson, ClarenceIgnacio

Thompson, LouiseDurango

Thompson, Mrs. Jennie ...Bayfield

Todd, GeorgeCortez

Tovera, Mrs. SylviaIgnacio

Townsend, Mrs. Irene .Aztec, N. M.

Tozer, ClydeMoqui

Turner, MorrillIgnacio

*Turner, WillieIgnacio

Wallace, HomerLebanon

Wallace, LenaLebanon

Weston, JamesMancos

Whittlesey, WebbDurango

Wilden, OscarRedmesa

Willis, AlexDurango

*Willis, Ed.Durango

Willis, MarkleyDurango

Willis, OrloColorado Springs

Woodberry, WardCortez

Wride, WillGriffith

FORT LEWIS SCHOOL GRADUATES

1914

McCulloch, Robert

Reeder, Orin

1915

Fredlund Reuben

McCulloch, Clay

Michael, Ray

1916—March

Pollock, Bertha

Pollock, Ethel

Roubidoux, Raymond

Hammond, Platt

Fielding, Leonard

1916—September

Baker, C. H.

Hunt, Alice

Lundquist, Albert

McNamee, Laughlin

Snyder, T. J.

Snyder, Paul

Sullivan, Frank

Turner, Willie

Willis, Edward

Published Monthly by
The Colorado Agricultural College



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August 24, 1912

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1918

Colorado Agricultural College Bulletin

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CATALOGUE

Fort Lewis School of Agriculture,
Mechanic AND Household Arts

Hesperus, Colorado Summer.

April 8 to Sept. 28. 1918

A SCHOOL OF PRACTICAL TRAINING
FOR EIGHTH-GRADE GRADUATES
OF THE SOUTHWEST

UNIVERSITY OF ILLINOIS
OCT 5 1918
Administrative Library

Series XVII

December, 1917

No. 11.

The Fort Lewis School of Agriculture, Mechanic and Household Arts

HESPERUS, COLORADO

Term, April 8 to September 28, 1918

THE STATE BOARD OF AGRICULTURE

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R. H. COTTRELL, Instructor in Shop Work.....	Hesperus, Colo.
RUTH WATTLES, Instructor in English.....	Hesperus, Colo.
—, Instructor in Pedagogy.....	Hesperus, Colo.

SCHOOL CALENDAR

Registration of Students.....	April 8th, 1918
Class Work Begins.....	April 9th, 1918
Memorial Day.....	May 30th, 1918
Vacation.....	June 28th to July 7th, 1918
Summer Review School.....	July 8th to August 17th, 1918
Colorado Day.....	August 1st, 1918
Labor Day.....	September 2nd, 1918
Graduation Exercises.....	September 27th, 1918

The Fort Lewis School

*IN SOUTHWESTERN COLORADO, LA PLATA COUNTY,
FIFTEEN MILES FROM DURANGO*

Beside the clear La Plata, which flows through the cool shades of innumerable spreading cottonwood trees, and almost at the foot of the La Plata Mountains, is situated the Fort Lewis School of Agriculture, Mechanic and Household Arts.

One could not conceive a more admirable location for a school for young farmers, home makers and teachers. The days are never oppressive and the nights are always cool and refreshing. The conditions for summer study are unsurpassed.

The Purpose of the School

The Fort Lewis property was given the State of Colorado by the United States Government. The General Assembly, in providing for its support, directed that it be a part of the Agricultural College system of the State, and provided for the establishment of a school of Agriculture, Mechanic and Household Arts, where young men and women might be trained to do more efficient work on the farm, in the shops, in the home, and in the rural schools. Incidentally, preparatory training is given those who may wish to enter college.

It is the aim of the school to produce efficient men and capable women who shall be real helpers in the communities in which they live.

Dormitories

Students room in brick dormitories, steam heated and electric lighted. Each student supplies his bedding above the mattress and cares for his own room. The school equips each room with bedstead, spring, mattress, chiffonier, table and chairs.

Equipment

The school is supplied with well bred hogs, sheep, cattle, horses and chickens for the use of the stock-judging classes.

The shops are well equipped with tools, work benches, forges, anvils and lathes, and the laboratories are supplied with material necessary for work in physics, chemistry, botany and other sciences.

The new model kitchen, sewing room and dining room are well equipped with modern apparatus and machines.

Life at Fort Lewis

Students have breakfast at 6:30 a. m. and pass to classrooms and shops at 7:30. The noon-day meal is served at 12 m., and the evening meal at 6 p. m. At 7:15 students pass to the assembly hall, where they pursue their studies under the supervision of one of the instructors. They are dismissed at 9:30 and the lights are turned off at 10:15.



The School Gardens

There is a student dance once a month, a meeting of the Ammons Literary Society once in two weeks, frequent parties, beefsteak fries on the banks of the La Plata, field day athletic events, hikes to the mountains and other diversions.

Instructors are with the students much of the time, and the spirit of the school is good.

There are many opportunities for students to earn money to apply on their expense account. Girls aid in the kitchen, dining room, laundry, dormitory and office, and the boys do farm, garden, shop and janitor work. Not only do students get the information ordinarily gleaned from text books, but they get practical training for farm and household work and receive pay for the time spent in learning.

The cost of board, room, laundry, text books, etc., is exceptionally low, and when from this is deducted the amount that a student earns, there is little to prevent an energetic boy or girl from attending, even if his parents have limited means of support. There are few schools in which one may secure such valuable training at so small an expenditure of money.

The School Surroundings

Pure water, abundant sunshine, fertile soil, cheap fuel, cheap lumber abound in the Fort Lewis district. Fort Lewis is near the famous orchards of the Montezuma Valley and of Farmington and Aztec, N. M., and is the center of great stretches of fertile farming land. The nearest railroad station is Hesperus, five miles north of Fort Lewis, on the Rio Grande Southern Railway. Durango, the county seat of La Plata County, is fourteen miles east of Hesperus.

From 1882 until 1892 the Fort was the headquarters of twelve companies of the United States Army. An Indian school was conducted at the Fort from 1892 until 1910.

In 1910 the 6,400 acres of land, with attached buildings, water rights, coal rights and fine timber, were given to the State of Colorado, by the national government, on the condition that an educational institution be maintained there where Indian children are admitted on the same basis as white children.

The Eighteenth Colorado General Assembly accepted the conditions laid down, and, accordingly, in 1911, the Fort Lewis School of Agriculture, Mechanic and Household Arts was established as a branch of the Colorado Agricultural College and placed under the direction of the State Board of Agriculture. The school was opened for students October 2, 1911.

The Twentieth General Assembly provided a levy of two hundredths of a mill for the support of the school, and provided for the establishment of a Rural Teachers' Training Course. This act of the General Assembly insures the financial support of the school and extends its functions so as to make it more useful to the Southwest and to the State generally.

The Twenty-first General Assembly provided funds for erecting farm buildings and for remodeling the dormitories.

What Fort Lewis Looks Like

Fort Lewis and environs present a most attractive appearance. The La Plata Mountains are always visible; the La Plata River, its banks lined with stately cottonwoods and yellow pines, flows through the reserve, and the east and west portions are covered with pine forests.



A Fertile Valley Near Fort Lewis



1. A Portion of the Campus, looking southeast. 2. The Campus, looking northeast.
3. Girls' Dormitory. 4. The Dining Hall. 5. The Power Plant and Shops.

Twenty-one Buildings on Campus

There are twenty-one buildings, built of stone, brick or wood. They are commodious, convenient in arrangement, electric lighted, sanitary and supplied with water. The building equipment includes the boys' dormitory, dining hall, shops and power house, dairy building, girls' dormitory, six residences, barns, silo and a number of storehouses. The school-house, dormitories, dining hall, office, one residence and the garage are steam heated.

Table Provided With Best of Meats, Vegetables and Dairy Products

No matter to what idealistic heights the pursuit of knowledge takes us, the cravings of the inner man always accompany us, and we must come down to the commonplace subject of eating. Nothing is left to be desired in this respect at Fort Lewis. Students and instructors take their meals at a central dining room, where is served home-butchered pork and beef, fresh vegetables from the garden, butter, cream, milk and buttermilk, fresh from the school's own dairy. The school is largely self-supporting from the standpoint of food. The kitchen has been recently equipped with new ranges, a vegetable peeler, a slicing machine and a dish-washing machine.

Chance to Be Independent by Paying Your Way With Work

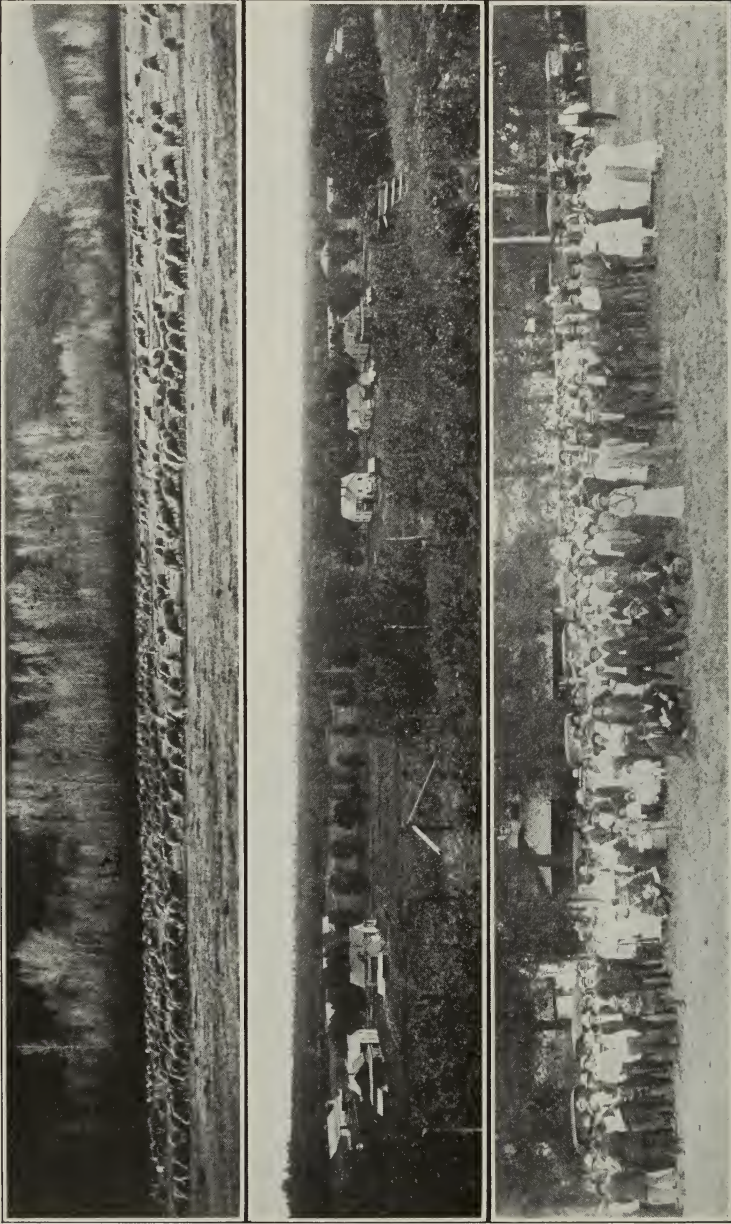
To the student who is compelled to work his way through school, or prefers to do so from a spirit of independence, the Fort Lewis School of Agriculture holds an added interest, for there is excellent opportunity to earn money while preparing oneself there. Boys may earn from \$50 to \$125 and girls from \$25 to \$75 during the six months.

Athletics

The school is fairly well equipped with gymnasium apparatus. There are basketball, baseball, running and vaulting contests. Field day meets are held once a month. The new two-court tennis grounds are first class in equipment and appearance.



The Stock Corrals



Top—A Typical Grazing Scene Near Fort Lewis Center—The Campus Lower—A Group of La Plata County Visitors at Fort Lewis

Physical Training

Regular supervised work in physical training will be required of all students. In the main it will be outdoor training of such a nature as to give the boys and girls strong, active bodies that will respond readily and correctly to the dictates of the will.

Literary Work

The school has two literary societies, the Ammons Society, of which all students of the school are members; and the Senior Debating Society, of which seniors and juniors may become members. Valuable practice in public speaking and debating is gained through the appearance upon the programs in these two societies.

Papers and Magazines

The school subscribes for the Country Gentleman, Wallace's Farmer, Technical World, Good Housekeeping, Literary Digest, Current Events, Pathfinder, Hoard's Dairyman, World's Work, Ladies' Home Journal, National Geographic and Youth's Companion. Complimentary copies of the Field and Farm, Bayfield Blade, Western Farm Life, Ignacio Chieftain and the Collegian are received.

Sessions

School is in session six days in the week, with general assembly for study from 7 to 9:30 p. m. School is closed frequently on Saturday or Monday afternoons for recreation and games.

Library

The school is accumulating a very good library. Bailey's Encyclopedia of Agriculture, the New International Encyclopedia, the Standard Dictionary and a number of other books have recently been added. It has the helpful service, also, of the Colorado Traveling Library.



The Experimental Plots

Sunday Services

Interdenominational Sunday School services are held each Sunday morning at 10:30 o'clock. Preaching services are frequently held on Sunday afternoon or evening.

Courses

1. A three-year course in Agriculture. Term of 1918, April 8th to September 27th.

2. A three-year course of Training for Rural Teachers. Term 1918, April 8th to September 27th.

3. A three-year course in Household Arts for girls. Term of 1918, April 8th to September 27th.

4. A six-week course in Agriculture for High School students. Term of 1918, July 8th to August 17th.

5. A six-week course of Training for Rural Teachers. Term of 1918, July 8th to August 17th.

6. A four-year course for those who wish to prepare for college entrance.

Admission.—Students who have satisfactorily completed the eighth grade, will be admitted without examination.

An examination in Arithmetic, United States History, English, Geography, Reading and Spelling may be required of all prospective students who are over fifteen years of age and who have not completed an eighth grade.

Enroll Early

It will not be possible to accommodate more than one hundred students during the summer of 1918 and all who plan to attend are urged to enroll at an early date.

Teachers' Certificates

All students who have taken the pedagogical subjects have received teachers' certificates at the La Plata county examinations.



A Threshing Scene Near Fort Lewis

*Course in Agriculture***FIRST YEAR**

First Term	Periods a week	Second Term	Periods a week
Bench Work	(10)	Forge Work	(10)
Botany	6	Field Crops	6
Stock Judging	(6)	Breeds of Farm Animals	6
English	5	English	5
Arithmetic	5	Arithmetic	5
Physical Training	(3)	Physical Training	(3)

SECOND YEAR

First Term	Periods a week	Second Term	Periods a week
Crop Raising	5	Irrigation and Leveling	3 (3)
Chemistry	3 (4)	Chemistry	3 (4)
English	5	English	5
Farm Mechanics	5	Farm Mechanics	5
Algebra	5	Algebra	5
Horticulture	3 (2)	Horticulture	3 (2)
Physical Training	(3)	Physical Training	(3)

THIRD YEAR

First Term	Periods a week	Second Term	Periods a week
Diseases of Farm Animals	5	Stock Feeding	5
Soils	3	Farm Management	4
Soils Laboratory	4	Farm Accounts	(2)
Animal Breeding	5	Dairying	6
Literature	5	Literature	5
Physics	3 (4)	Physics	3 (4)
Physical Training	(3)	Physical Training	(3)

FOURTH YEAR

(For those who desire to enter college)

First Term	Periods a week	Second Term	Periods a week
Geometry	5	Geometry	5
General History	5	General History	5
Economics and Civics	5	Economics and Civics	5
English	5	English	5

Course in Rural Teachers' Training and Domestic Science

FIRST YEAR

First Term	Periods a week	Second Term	Periods a week
Botany	6	Botany and Insect Study	6
Cooking	(10)	Cookery	(10)
English	5	English	5
Arithmetic	5	Arithmetic	5
Manual Training	(10)	Home Nursing	6
Physical Training	(3)	Physical Training	(3)

SECOND YEAR

First Term	Periods a week	Second Term	Periods a week
American History	5	American History and Civics	5
Algebra	5	Algebra	5
English	5	English	5
Chemistry	3 (4)	Chemistry	3 (4)
Sewing	(10)	Geography	5
Physical Training	(3)	Physical Training	(3)

THIRD YEAR

First Term	Periods a week	Second Term	Periods a week
Literature	5	Literature	5
Theory and Practice	6	School Management and	
Special Methods	6	School Law	6
Psychology	5	Special Methods	6
Physics	3 (4)	Observation and Practice	5 (5)
Physical Training	(3)	Physics	3 (4)
		Physical Training	(3)

Students expecting to enter college will be required to take the work of the fourth year.

FOURTH YEAR

First Term	Periods a week	Second Term	Periods a week
Physics	3 (4)	Physics	3 (4)
Geometry	5	Geometry	5
General History	5	General History	5
English	5	English	5

Course of Study for Young Women *Domestic Science*

FIRST YEAR

First Term	Periods a week	Second Term	Periods a week
Hand Sewing	(10)	Machine Sewing	(10)
Cookery	(10)	Cookery	(10)
English	5	Home Nursing	6
Arithmetic	5	English	5
Physical Training	(3)	Arithmetic	5
		Physical Training	(3)

SECOND YEAR

First Term	Periods a week	Second Term	Periods a week
Advanced Cookery	(8)	The House and Household Management	4
The House and Household Management	2	Chemistry	3 (4)
Chemistry	3 (4)	Horticulture	3 (2)
Horticulture	3 (2)	English	3
English	3	Algebra	5
Algebra	5	Physical Training	(3)
Physical Training	(3)		

THIRD YEAR

First Term	Periods a week	Second Term	Periods a week
Dressmaking	(6)	Serving of Meals	2 (4)
Laundry	1 (4)	Dressmaking	(6)
English	3	Dairying	6
Millinery and Embroidery	(4)	English	3
Physical Training	(3)	Millinery and Embroidery	(4)
		Physical Training	(3)

FOURTH YEAR

First Term	Periods a week	Second Term	Periods a week
Physics	3 (4)	Physics	3 (4)
Geometry	5	Geometry	5
General History	5	General History	5
English	5	English	5
Civics	5	Economics	5

The course in Domestic Science will be offered if called for by four or more students before April 1, 1918.

Agriculture

Field Crops and Crop Raising (First and Second).—Five periods a week for 24 weeks. Text, Wilson and Warburton. A study of wheat, corn, oats, barley, rye and other cereals, forage crops, alfalfa, grasses, potatoes, sugar beets and other root crops. The judging, selecting, testing and care of seeds of the different useful plants, also the different plant diseases and pests and how to treat or eradicate them; the best cultural methods, the best methods of caring for harvested crops, and other useful facts concerning the crops grown on the farm are taught.

Stock Judging (First Year).—Six periods a week for twelve weeks. Text, Purdue University Bulletin No. 29. This is a study of the typical forms and characteristics of different breeds of farm animals. Animals are brought before the classes and the students apply the information gained from texts and instructors in pointing out the desirable and undesirable qualities of each.

Breeds of Farm Animals (First Year).—Six periods a week for twelve weeks. Text, Types and Breeds of Farm Animals, Plumb. This is a study of the characteristics of the various breeds of farm animals. The school is fortunate in having pure-bred Percherons, Herefords, Short-horns, Holsteins, Oxfords, Rambouillets, Duroc-Jerseys, Berkshires and Tamworths, in addition to good grade cattle and horses. One hundred fine stereopticon slides are available for class use.

Botany (First Year).—Six periods a week for twelve weeks. Text, Baily. A study of the seed and the resulting plant and flower, together with the harmful insects.



Filling the School Silo

Horticulture (Second Year).—Texts in vegetable gardening and fruit growing are used. A study of the best vegetables to grow at high altitudes is made, together with the best soil, water and cultural conditions. Some time is given to the plant and insect enemies of vegetables and to the best methods and conditions of storage. During the second term fruit growing is pursued. The best planting and cultural conditions for strawberries, raspberries, currants, gooseberries and hardy tree fruits are studied. Insect pests and how to destroy them are given much attention. Attention is also given to packing, marketing and storing fruit.

Diseases of Farm Animals (Third Year).—Five periods a week for twelve weeks. Text, *Common Diseases of Farm Animals*, Craig. Instruction is given in the care of farm animals, how to properly care for them and guard against disease, and thus secure the best growth or greatest degree of usefulness. Also, how to recognize the common diseases, and how to nurse afflicted animals. Special attention is given to hygiene and farm sanitation.

Soils (Third Year).—Seven periods a week for twelve weeks. Text, *Soils and Soil Fertility*, Whitson and Walster. Fee, fifty cents a term. A study of plant food, preparation of the soil, physical conditions of the soil that affect soil productivity, systems of rotation, manures and commercial fertilizers and similar topics is pursued.

Stock Feeding (Third Year).—Five periods a week for twelve weeks. Text, *Productive Feeding of Farm Animals*, Woll. The value of the different crops as feed for animals is studied and balanced rations for various classes of farm animals are then worked out.

Farm Management and Farm Accounts (Third Year).—Six periods a week for twelve weeks. Text, *Farm Management*, Warren. A study of the business of farming: Why farm, cost of farming, hired help, ten-



A Part of the Dairy Herd



The Dairy Room

ants; diversified and specialized, intensive and extensive farming, size of farm, capital, equipment, cropping system, marketing and farm records and accounts.

Dairying (Third Year).—Six periods a week for twelve weeks. In the dairy laboratory the students are taught the use of the Babcock tester, the lactometer, the moisture test for butter, the methods of handling milk and cream, the running and testing of various cream separators, ripening cream, churning, working, salting and printing of butter. The practical work is supplemented by lectures on composition of milk, care and use of milk and cream, separating and butter making.



A Registered Duroc, Property of the School



The Draft Horses

Animal Breeding (Third Year).—Five periods a week for twelve weeks. The laws of heredity, variation and reversion, the principles of pure breeding, line breeding, in-breeding, cross-breeding, and grading up are taught under this head. The principal points to be observed in



Class in Horticulture Setting Fruit Trees

the practice of breeding, such as are incidental to selection and mating of stock, are emphasized.

Mathematics

Arithmetic (First Year).—Five periods a week for twenty-four weeks. Text, Milne's Complete Arithmetic. Drill upon the four fundamental operations, factoring, lowest common multiple, tests for divisibility of numbers, common and decimal fractions, mensuration, denominate numbers with tables, United States land survey, standard time, longitude and time, percentage, profit and loss, commission and brokerage, taxes, trade discount, simple interest, bank discount, proportion and square root, measurement of hay, cisterns, silos and land. Much of the work in arithmetic will be based upon practical farm problems arising from daily field work.

Algebra (Second Year).—Five periods a week for twenty-four weeks. Text, Wells and Hart. The fundamental operations: Factoring, fractions, simple equations, radicals and quadratics are studied.

Geometry (Fourth Year).—Five periods a week for twenty-four weeks. Text, Wells Plane Geometry.

Irrigation and Leveling (Second Year).—This is a practical course for farm boys. The purpose is to give such instruction as will make it possible to lay ditches out on grade on the home farm.

Science

Home Nursing (Second Year).—Six periods a week for twelve weeks. A study of the proper sanitary conditions that should surround school and farm houses, with special reference to sources of domestic water supply and the disposal of refuse. Physiology is studied for a good foundation for the work in hygiene and in home nursing.

Psychology (Third Year).—Six periods a week for twelve weeks. Text, Outlines of Educational Psychology, Pyle. A study of the laws of heredity, habit, memory and attention as applied in teaching, and of the individualistic, social adaptive instincts and their use in the educative process.

Physics (Third Year).—Three hours of class or recitation work and four hours of laboratory work per week for twenty-four weeks. Text, Milliken and Gale (Revised). Fee, \$1 a term. A study is made of simple machines, pneumatics, hydrostatics, heat, light, sound and electricity and their application to every-day problems.

Chemistry (Second Year).—Three hours class and four hours laboratory a week for twenty-four weeks. Text, Chemistry and Its Relation to Daily Life, Kahlenberg and Hart. Fee, \$1.50 a term. After studying the fundamental principles of pure chemistry, the application of chemistry to the farm and home life is taken up. The chemical properties and values of foods, and the chemical changes and effects due to cooking and baking are studied. The elements affecting plant growth and soil fertility are studied, and the value of manure and commercial fertilizer taken up.

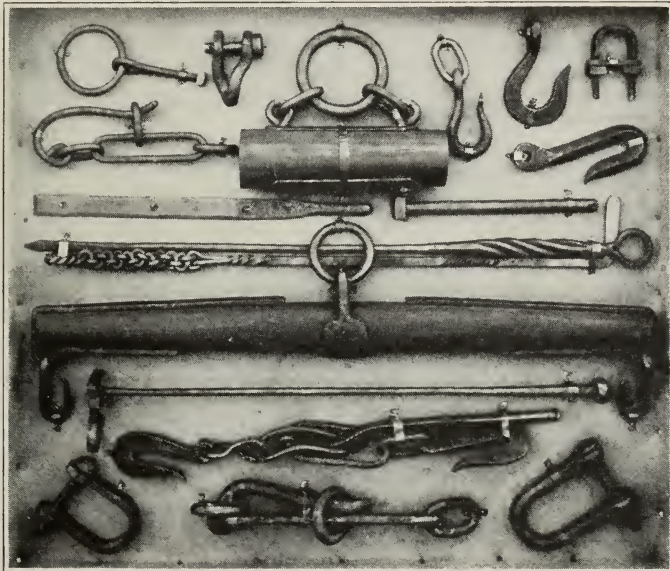
Mechanic Arts

Farm Mechanics (Second Year).—Five periods a week for twenty-four weeks. Text, Davidson and Chase. A study of farm machinery and motors and of leveling, irrigation, cement and concrete work. The underlying principles of farm machines of various types, a detailed study of these machines and their care is made. The various forms of power available for farm use, such as windmills, gas engines, steam engines, water wheels and electric motors are studied and compared.

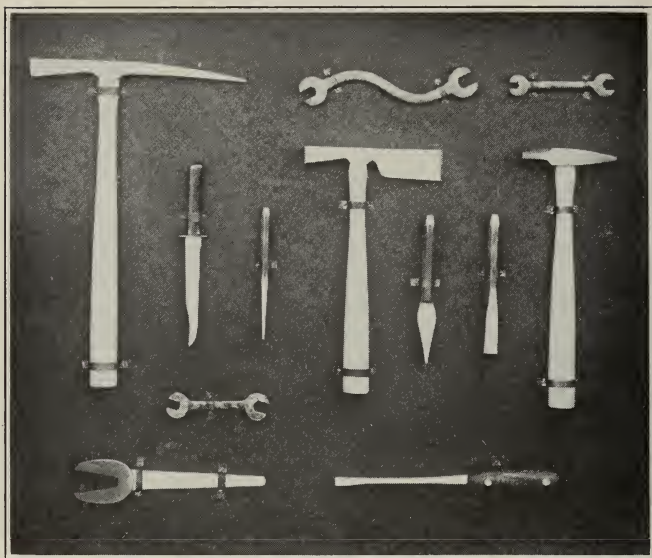
Forge Work (First Year).—Ten periods a week for twelve weeks. Fee, \$2.50. After some preliminary work from blueprints in shaping, welding and tempering, plow-sharpening, making of cleavices, ice tongs, ironing doubletrees and the making of other useful articles is taught.

Blacksmithing.—The various forging processes in iron and steel are taught, such as bending, twisting, upsetting, drawing and welding. Chains, hooks, bolts, neckyoke centers, single-tree irons, clips and centers, and similar articles are made. Elementary work in tool steel, including the making of chisels and punches, is given.

Tool-smithing.—A continuation of the course in blacksmithing. The proper handling of tool steel, including forging, heat treatment and finishing, is taught, by making chisels, punches, hammers, picks and wrenches. Case-hardening of machine steel pieces, such as wrenches, is also taken up. Fee, \$3.



Work in Iron Done by Students in Forging



Work in Tool Steel Done by Students in Forging

Wood Turning.—A practical course, teaching the various methods of turning, such as spindle, face plate, pin and chuck work. The pieces made are as far as possible practical, including Indian clubs, dumb bells, rolling pins, plates, picture frames, napkin rings, cups, vases, boxes and candlesticks. Glueing up and methods of finishing are taught. Fee, \$3.

Bench Work (First Year).—Ten periods a week for twelve weeks. Fee, \$2.50. The use and care of wood-working tools are taught. Work on exercises from blueprints is followed by the practical work, such as furniture-making, construction of window and door frames, doubletrees and eveners, gates, feeding racks and troughs and water tanks.

Manual Training (First Year).—Six periods a week for twelve weeks. Fee, \$2. Sloyd, clay modeling, paper cutting and folding exercises in basketry are given. Special attention is paid to designing the exercises to meet the conditions of the country school. Full advantage is taken of the value of the small boy's pocket knife in whittling exercises and of the little girl's small shears in paper cutting. The pupils are shown how to make the most of materials easily available at the country school.



Lathe Work in Wood



Student Work in Wood Turning

English and Literature

First Year.—Five periods a week for twenty-four weeks. Text, Reed and Kellogg's English Grammar. A study of the essentials of English Grammar and Elementary Composition. For the boys the work in composition consists largely of reports, outlines and descriptions of their field work.

Second Year.—Five periods a week for twenty-four weeks. Text, Progressive Course in English for Secondary Schools, Stebbins. A study of the correct forms in writing and speaking. Letter writing, written and oral compositions are given particular attention.

Third Year.—Five periods a week for twenty-four weeks. The purpose of this course is to acquaint the pupils with our best American authors and their writings. Especial attention is given to those books which picture the beauties found in country life.

Fourth Year.—Five periods a week for twenty-four weeks. This is a course in English Literature in which the major portion of the time is given to the writers of the British Isles.

Civics

Third Year.—Five periods a week for twelve weeks. Government—local, county, state and national—is studied. This is a course of training in citizenship.

History

United States (First Year).—Six periods a week for twelve weeks. Text, School History of the United States, Mace. Particular attention is paid to the history of agriculture and industrial development in the United States and to the methods of teaching history.

General History (Fourth Year).—Five periods a week for twenty-four weeks. Meyers' General History is used.

Economics

Economics (Fourth Year).—Five periods a week for twelve weeks. Elements of Economics by Burch and Nearing is used as a guide.

Geography

Political and Physical (Second Year).—Five periods a week for twelve weeks. A good text is used in each subject. Much attention is given to map study, industrial geography and methods of teaching geography.



A Class in Canning

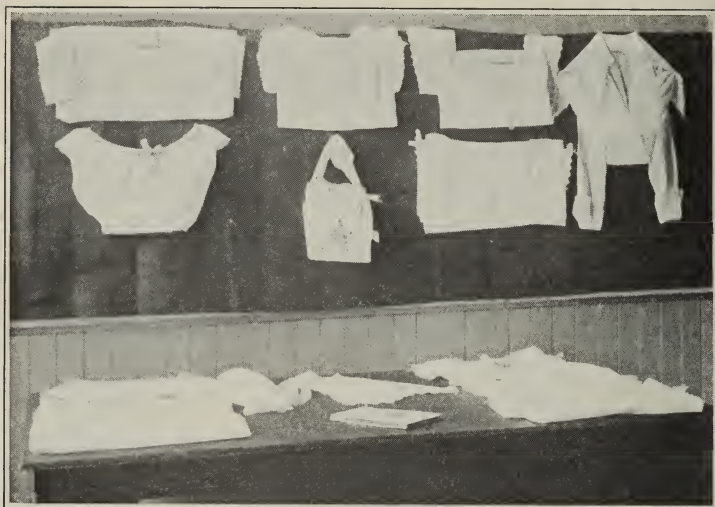
Domestic Science

Hand Sewing (First Year).—Lectures are given in the selection and use of materials, methods of making and use of thread, needles, thimbles and tape measures; instruction is given in the different kinds of stitches, seams, hems, buttonholes, patching, darning and care of clothing.

Machine Sewing (First Year).—The training in hand work is followed by directions in the care and use of sewing machines and the making of simple garments or articles for the house.



Learning to Make Their Own Clothes



Articles Made by Students in Sewing

Dressmaking and Millinery (Third Year).—Ten periods a week for twelve weeks. The covering and lining of a simple frame, the sewing of braids, and the making of wire frames are taught; also a few of the useful stitches in embroidery, with suggestions for their combination and application. Each girl cuts out and makes two dresses, one of washable material, and the other of woolen material. Students are taught how to fit garments, also the careful finishing of seams, hems and plackets.

Cookery (First Year).—Ten periods a week for twelve weeks. The courses in cookery include a study of foods, together with explanation of the reasons for certain practices in cooking, practical lessons in plain cooking, knowledge of fuel and the use of the kerosene and coal range. Neatness, system and speed, together with quietness, are strongly emphasized in the practice work of the students.

Advanced Cookery and Serving of Meals (Second Year).—Ten periods a week for twelve weeks. The study of the relative value to the body of different food nutrients, the planning and serving of meals suitable to varying conditions.

The House and Household Management.—House plans, house furnishings, sanitary consideration in heating, lighting and ventilation of houses, the water supply, disposal of household wastes, care of the house in general, the keeping of accounts, the week's routine, selection and care of supplies are studied.

Laundry.—The students are taught the use, cost of, and care of laundry equipment, of various soaps, washing powders, bluing and starches. Practice is given in removing stains and in the laundering of such linens and garments as are found in the washing of the average household.



Dainty Hostesses on Visitors' Day

Pedagogy

Theory and Practice (Third Year).—Six periods a week for twelve weeks. Good text books, dealing with the problems of instruction, drill, testing, review, methods of assigning lessons, calling on pupils and teaching the elementary school subjects, are studied.

Special Methods (Third Year).—Six periods a week for twenty-four weeks. The best methods of teaching reading, arithmetic, language, geography and history are studied, discussed and illustrated.

School Management and School Law (Third Year).—Six periods a week for twelve weeks. A study of the physical environment of the pupil, general sanitation, the teacher, his preparation and his relation to the school board, parents and pupil, the school program, incentives to study, examinations, promotions and moral training. Much time is given to study of the school laws of Colorado.

Observation and Practice (Third Year).—Ten periods a week for twelve weeks. Observation of classroom instruction, and a discussion of the same, followed by actual practice work under supervision and direction.

The Fort Lewis Short Course
for
High School Students, Teachers and Others
July 8 to August 17, 1918

The course is designed for those who wish to secure credits that will be accepted at the Fort Lewis or the Colorado School of Agriculture, in Colorado High Schools and for those who wish to take the county teachers' examination.

Special classes under special teachers will be organized in the subjects named below, provided there have been at least **four** applications for the subject BEFORE July 1, 1918. No summer school student will be expected to take fewer than two nor more than four subjects during the Short Course.

If it is your desire to enter the school on July 8, do not fail to notify the principal of the school before July 1, naming the subjects in which you wish classes formed.

Students may select four subjects out of any one of the following groups or in special cases a total of *four* may be selected from different groups.



Two Fair Graduates

Course of Study for Fort Lewis Summer Term

First Summer

Bench Work in Wood
Forge Work
Field Crops
Stock Judging
Horticulture

Second Summer

Lathe Work in Wood
Tool Steel Work
Soils
Farm Machinery
Irrigation and Leveling
Farm Management
Stock Feeding
Stock Breeding

Teachers' Course

First Summer

Arithmetic
English
American History
General Science
Civics

Second Summer

Psychology
Theory and Art of Teaching
School Management
School Law
Special Methods in Teaching the
Common School Subjects

Course for High School Students

General History
Composition
Algebra
Civics
General Science



A School Banquet

Regulations

Students must secure permission before leaving the grounds. All students must have permits from home to go to town.

The use of tobacco is not permitted.

Students must not have firearms in their possession.

All students meet at the central study hall at 7 o'clock each evening for study, entertainment or attendance upon a religious or literary program.

Estimated Expenses for the Session of Six Months

FOR BOYS

Board, room, per month.....	\$ 20.00
Stationery	5.00
Entrance and Library Fee.....	5.00
Forge and Bench Fees, \$2.50 each.....	5.00
Incidental Expenses	10.00
Science Fees	4.00
Books, about	6.00
Laundry, about	10.00

Total for six months.....\$165.00

FOR GIRLS

Board, room, per month.....	\$ 20.00
Gymnasium suit	5.00
Stationery	5.00
Science Fees	4.00



A Costume Party

Incidental Expenses	10.00
Domestic Science Fees, \$2 each.....	4.00
Entrance and Library Fee.....	5.00
<hr/>	
Total for six months.....	\$153.00

Tuition of \$20 per year is charged to those who are not residents of Colorado.

Fees and tuition must be paid for the six months in advance. Board and room must be paid for one month in advance. There will be no refund for board for an absence of a day or two. There will be no refund of room rent so long as the room is held, and no reduction in fees and tuition to those who come later or leave before the close of school.

A property deposit fee of \$3 is required at the time of registration. This will be returned if property has not been lost or damaged.

Regular charges are made for taking students and others to and from Hesperus and Durango or other places.



An Evening Meal on the Banks of the La Plata River

Register of Students Who Have Attended Fort Lewis School Since October, 1911

FORT LEWIS SCHOOL GRADUATES

1914

McCulloch, Robert
Reeder, Orin

1915

Fredlund, Reuben
McCulloch, Clay
Michael, Ray

1916—March

Pollock, Bertha
Pollock, Ethel
Roubidoux, Raymond
Hammond, Platt
Fielding, Leonard

1916—September

Baker, C. H.
Hunt, Alice
Lundquist, Albert
McNamee, Laughlin
Snyder, T. J.
Snyder, Paul
Sullivan, Frank
Turner, Willie
Willis, Edward

1917—September

Anderson, Esther
Skelton, Arlene

Alley, Arthur.....Durango
*Anderson, Esther...La Plata, N. M.

*Baker, Hillard.....Wyoming
Baird, Laura.....Dress
Baird, Mrs. Callie.....Breen
Beaty, Buda.....Pagosa Springs
Bonham, Lloyd.....Fort Collins
Boyd, George.....Ordway
Breedon, Helen.....Illinois
Breedon, Ralph.....Illinois
Brimhall, Alma....Fruitland, N. M.
Brinkerhoff, David.....Mancos
Brinkerhoff, Levi.....Mancos
Brown, Harold.....Arizona
Brown, Laurence.....Durango
Burgman, J. Quincy.....Ignacio
Burnham, Bessie.....Redmesa
Burns, Walter....Flora Vista, N. M.

Canfield, Hiram.....Arriola
Cavanass, Erma.....Hesperus
Cavenas, Mrs. Muriel.....Breen
Chambers, Robt. Farmington, N. M.
Chockley, Marian.....Arboles
Connell, Agnes.....Durango
Cook, Edna.....Durango
Craft, Howard.....Kline

Dale, Ellen.....Redmesa
Daniels, Tom.....Pagosa Springs
Dean, Chas.....Redmesa
Decker, Earl.....Mancos
De Lusch, Mrs. Milton....Durango
Dennison, Catherine.....Breen
Deti, Pierene.....Griffith
Dunlap, Irvin.....Pagosa Springs
Dunlap, Vera.....Pagosa Springs

Edwards, Alvin.....Arizona
Egger, Raymond.....Bayfield
Ellis, John.....Mancos

Fay, Richard.....Montrose
*Fielding, Leonard.....Idaho
Fielding, Mary.....Idaho
Fielding, Mrs. Frank.....Mancos
Flaugh, Leon.....Pagosa Springs
Fredlund, Fred.....Fort Collins
*Fredlund, Reuben.....Fort Collins
Fredlund, Dewey.....Fort Collins
Frazier, Vance.....Durango

Glenn, Cleo.....Lebanon
Gibbons, Vawter.....Log Cabin
Gould, Walter.....Bear Creek
Green, Claude.....Durango
Greer, Harry.....Redmesa

Halls, Dilworth.....Mancos
Halls, J. Lewis.....Mancos
Halls, Lillie.....Mancos
Halls, Lee.....Mancos
Halls, Roy.....Mancos
Hamilton, Will.....Kline
*Hammond, Platt.....Mancos
Hammond, Roy.....Lebanon
Hare, Will.....Bloomfield
Harris, Hervey.....Arriola
Harrison, Winn.....Breen
Harvey, Clarence.....Fort Collins
Hatch, Joseph....Fruitland, N. M.
Hatcher, Oscar.....LaBoca
Hatley, Dean.....California
Helton, Golda.....Durango
Henderson, Ersal.....Hesperus
Hight, Evelyn.....Vanadium

Hott, Powell.....Tiffany
 Houser, Louise.....La Veta
 Hubbard, M.....Shiprock
 Hughs, Willa.....Hesperus
 *Hunt, Alice.....Hesperus
 Hunt, Roberta.....Hesperus
 Huntington, J.....Hesperus
 Humphreys, Robert.....Hesperus

Jaquez, Onofre.....Blanco, N. M.
 Jones, Myrtle.....Pagosa Springs

Kermode, Alfred.....Cortez
 Kimball, Carolyn.....Allison
 Kimball, Edith.....Allison
 Kimsey, Mrs. Kate.....Hesperus

Leonard, Frankie.....Silverton
 Lieper, Harold.....Illinois
 Lilly, Lemuel C.....Cripple Creek
 Longenbaugh, S.....Cortez
 *Lundquist, Albert.....Trinidad

McCall, Rex.....Arriola
 McCartney, Tom.....Durango
 *McCulloch, Clay.....Durango
 McCulloch, Lillie.....Durango
 *McCu'loch, Robert.....Durango
 McEwen, Reuben.....Cortez
 McElva, Mrs. Elva.....Durango
 McIntyre, Lizzie.....Breen
 *McNamee, Laughlin.....La Plata
 Menefee, Carolyn.....Mancos
 Meyers, Duncan.....Bayfield
 *Michael, Ray.....Hesperus
 Miller, Ella.....Silverton
 Miller, E. Florence.....Kline
 Miller, Sophia.....Durango
 Mohny, John.....Kline
 Morris, Sarah.....Ignacio
 Mueller, Anna.....Florida

Neil, Frank.....Ignacio
 Nelson, Earl.....Telluride
 Nelson, Frank.....Durango
 Nicholson, Ernest.....Hesperus
 North, Ruth.....Cortez

O'Brien, Roy.....Durango
 Officer, Adaline.....Creede
 Olbert, Walter.....Oxford

Palmer, Murray.....Farmington, N. M.
 Pedwell, Sylvanus.....Griffith
 Peters, Harry.....Durango
 Philo, Helen.....Durango
 Pilat, Eva.....Durango
 Pierce, Allen.....Aztec, N. M.
 Pinkstaff, Rhoda.....Aztec, N. M.
 *Pollock, Bertha.....Allison
 *Pollock, Ethel.....Allison
 Price, John.....Canon City
 Pulliam, Josephine.....Durango

Quinn, Mary.....Durango

Rathjen, Robert.....Aztec, N. M.
 *Reeder, Orin.....Durango
 Reim, Elsa.....Mancos
 Retherford, Roy.....Yellow Jacket
 Rockwell, Mabel.....Durango
 *Roubidoux, Raymond.....Cortez
 Rust, Louise.....Dolores

Scott, May.....Fort Collins
 Sever, Eugene.....Flora Vista, N. M.
 Shaferhoff, Joseph.....Durango
 Simpson, Pat.....Breen
 Simpson, Roy.....Durango
 *Skelton, Arlene.....Shiprock, N. M.
 Slade, Clarence.....Redmesa
 Slade, Evelyn.....Redmesa
 Slade, Ida.....Breen
 Smith, Alice.....La Plata, N. M.
 Smith, Russell.....La Plata, N. M.
 Smith, Donald.....Cortez
 Smith, Elsie.....La Plata, N. M.
 Smith, Hiram.....Mancos
 *Snyder, Paul.....Hesperus
 *Snyder, T. J.....Dove Creek
 Snyder, Glenn.....Hesperus
 Sorg, Violet.....Durango
 Steckler, Bertha.....Hesperus
 Steele, Jennie.....Kline
 Stevens, Elsie.....Bayfield
 Stinson, Mrs. Susie.....Kline
 *Sullivan, Frank.....Fort Collins
 Sullivan, Jose.....Durango

Taylor, Aubra.....Ignacio
 Taylor, Gladys.....Redmesa
 Taylor, George.....Ignacio
 Taylor, Leo.....Redmesa
 Taylor, Lillian.....McElmo
 Taylor, Lydia.....Redmesa
 Thayer, D. C.....Manhattan, Kan.
 Thomas, Virgil.....Mancos
 Thompson, Clarence.....Ignacio
 Thompson, Louise.....Durango
 Thompson, Mrs. Jennie.....
 Pendleton, N. Mex.
 Tipotch, Isabel.....Hesperus
 Todd, George.....Cortez
 Tovera, Mrs. Sylvia.....Ignacio
 Tozer, Clyde.....Moqui
 Turner, Morrill.....Ignacio
 *Turner, Willie.....Ignacio
 Townsend, Mrs. Irene.....Aztec, N. M.

Walker, Mae.....Redmesa
 Walker, Ruth.....Redmesa
 Wallace, Homer.....Lebanon
 Wallace, Lena.....Lebanon
 Walters, Newton.....Fort Collins
 Ward, Frank.....Brighton
 Welborn, Robert.....Mancos
 Weston, James.....Mancos
 Whittlesey, Webb.....Durango
 Wilden, Oscar.....Redmesa
 Willis, Alex.....Durango
 *Willis, Ed.....Durango
 Willis, Markley.....Durango
 Willis, Orlo.....Colorado Springs
 Woodberry, Ward.....Cortez
 Wride, Will.....Griffith

*These students have graduated.

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Fort Lewis School - Agr., Mech. & H.H. Arts - Winter 1918-19

Winter Session Is Assured

Fort Lewis School
... of ...
Agriculture, Mechanic and
Household Arts

Hesperus, Colorado



OCTOBER 15th, 1918 TO
APRIL 4th, 1919

*A School of Practical Training for Eighth
Grade Graduates*

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.....	Hesperus, Colo.
WALTER HAWKINS, <i>Shop and Dormitory Assistant</i> ..	
.....	Hesperus, Colo.

School Calendar

Registration of Students.....	October 15th, 1918
Class Work Begins.....	October 16th, 1918
Thanksgiving Recess.....	Nov. 27th to Dec. 1st, 1918
Christmas Vacation.....	Dec. 21st to Dec. 29th, 1918
First Quarter Closes.....	Jan. 10th, 1919
Second Quarter Opens.....	Jan. 13th, 1919
Commencement Exercises.....	April 3rd, 1919

Dormitories

Students room in brick dormitories, steam heated and electric lighted. Each student supplies his bedding above the mattress and cares for his own room. The school equips each room with bedstead, springs, mattress, chiffonier, table and chairs.

Equipment

The school is supplied with well bred hogs, sheep, cattle and horses for the use of the stock-judging classes.

The shops are well equipped with tools, work benches, forges, anvils and lathes, and the new laboratories are supplied with material necessary for work in physics, chemistry, botany and other sciences.

The new model kitchen, sewing room and dining room are well equipped with modern apparatus and machines.

Life at Fort Lewis

Students have breakfast at 6:45 a. m. and pass to classrooms and shops at 7:30. The noon-day meal is served at 12 m., and the evening meal at 6 p. m. At 7:15 students pass to the assembly hall, where they pursue their studies under the supervision of one of the instruct-

ors. They are dismissed at 9:30 and the lights are turned off at 10:15.

Instructors are with the students much of the time, and the spirit of the school is good.

There are many opportunities for the students to earn money to apply on their expense account. Girls aid in the kitchen, dining room, laundry, dormitory and office, and the boys do farm, garden, shop and janitor work. Not only do students get the information ordinarily gleaned from text books, but they get practical training for farm and household work and receive pay for the time spent in learning.

The cost of board, room, text books, etc., is exceptionally low, and when from this is deducted the amount that a student earns, there is little to prevent an energetic boy or girl from attending, even if his parents have limited means of support. There are few schools in which one may secure such valuable training at so small an expenditure of money.

The nearest railroad station is Hesperus, five miles north of Fort Lewis, on the Rio Grande Southern Railway, Durango, the county seat of La Plata County, is fourteen miles east of Fort Lewis.

There is a student dance once a month, a meeting of the Ammons Literary Society once in two weeks frequent parties, beefsteak fries on the banks of the La Plata, field day athletic events, hikes to the mountains and other diversions.

Regulations

Students must secure permission before leaving the grounds. All students must have permits from home to go to town.

The use of tobacco is not permitted.

Students must not have firearms in their possession.

Course in Agriculture

FIRST YEAR

	PERIODS A WEEK		PERIODS A WEEK
FIRST TERM—		SECOND TERM—	
Bench Work	(10)	Forge Work	(10)
Botany	6	Field Corps	6
Stock Judging	(6)	Breeds of Farm	
English	5	Animals	6
Arithmetic	5	English	5
Military Drill	(3)	Arithmetic	5
		Military Drill	(3)

SECOND YEAR

	PERIODS A WEEK		PERIODS A WEEK
FIRST TERM—		SECOND TERM—	
Crop Raising	5	Irrigation and	
Chemistry	3 (4)	Leveling	3 (3)
English	5	Chemistry	3 (4)
Farm Mechanics	5	English	5
Algebra	5	Farm Mechanics	5
Horticulture	3 (2)	Algebra	5
Military Drill	(3)	Horticulture	3 (2)
		Military Drill	(3)

THIRD YEAR

	PERIODS A WEEK		PERIODS A WEEK
FIRST TERM—		SECOND TERM—	
Diseases of Farm		Stock Feeding	5
Animals	5	Farm Management	4
Soils	3	Farm Accounts	(2)
Soils Laboratory	(4)	Dairying	6
Animal Breeding	5	Literature	5
Literature	5	Physics	3 (4)
Physics	3 (4)	Military Drill	(3)
Military Drill	(3)		

*Course in Rural Teacher's Training and
Domestic Science*

FIRST YEAR

FIRST TERM—	PERIODS A WEEK	SECOND TERM—	PERIODS A WEEK
Botany	6	Botany and Insect	
Cooking	(10)	Study	6
English	5	Cookery	(10)
Arithmetic	5	English	5
Sewing (Hand)	(10)	Arithmetic	5
		Sewing (Machine)	(10)

SECOND YEAR

FIRST TERM—	PERIODS A WEEK	SECOND TERM—	PERIODS A WEEK
American History	5	American History	5
Algebra	5	Algebra	5
English	5	English	5
Chemistry	3 (4)	Chemistry	3 (4)
Home Nursing	5	Geography	5
Civics	3	Civics	3

THIRD YEAR

FIRST TERM—	PERIODS A WEEK	SECOND TERM—	PERIODS A WEEK
Literature	5	Literature	5
Theory and Practice	6	School Management	
Special Methods	6	and School Law	6
Physics	3 (4)	Special Methods	6
Advance Cookery	(10)	Physics	3 (4)
		Dress Making	(10)

Estimated Expenses For the Session of Six Months

FOR BOYS

Board, room, per month.....	\$22.00
Stationery	5.00
Entrance and Library Fee.....	5.00
Forge and Bench Fees, \$2.50 each.....	5.00
Incidental Expenses	10.00
Science Fees	4.00
Books, about	6.00
Uniform, if required, about.....	25.00
Property Deposit	3.00

FOR GIRLS

Board, room, per month.....	\$22.00
Stationery	5.00
Science Fees	4.00
Incidental Expenses	10.00
Domestic Science Fees, \$2.00 each.....	4.00
Entrance and Library Fee.....	5.00
Books, about	6.00
Property Deposit	3.00

Tuition of \$20 per year is charged to those who are not residents of Colorado.

Fees and tuition must be paid for the six months in advance. There will be no refund for board for an absence of a day or two. There will be no refund of room rent so long as the room is held, and no reduction in fees and tuition to those who come later or leave before the close of school.

A property deposit fee of \$3 is required at the time of registration. This will be returned if property has not been lost or damaged.

Regular charges are made for taking students and others to and from Hesperus and Durango or other places.

Address

PRINCIPAL OF FORT LEWIS SCHOOL

HESPERUS, COLORADO

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Colorado Agricultural College Bulletin

CATALOGUE
Fort Lewis School of Agriculture
Mechanic and Household Arts
Hesperus, Colo.

Oct. 11, 1920 to April 1, 1921
and
April 11, 1921, to Sept. 30, 1921

*A School of practical training
for
Eighth-Grade Graduates*

Series XX

August, 1920

No. 11

The Fort Lewis School of Agriculture, Mechanic and Household Arts

HESPERUS, COLORADO

October 11, 1920, to April 1, 1921
April 11, 1921, to October 1, 1921

THE STATE BOARD OF AGRICULTURE

	Term Expires
HON. A. A. EDWARDS, President of the Board.....	Fort Collins, 1921
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HON. H. D. PARKER.....	Greeley, 1923
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CHARLES A. LORY, M.S., LL.D., D. Sc., President.....	Fort Collins, Colo.
GEORGE F. SNYDER, Principal.....	Hesperus, Colo.
ERNEST H. BADER.....	Instructor in Agriculture, Farm Manager
CHARLES C. BROOKS.....	Instructor in Science and Mathematics
THOMAS K. LAIRD.....	Instructor in History and English
IDA ROWAN.....	Instructor in Pedagogical Subjects
MILDRED BRISTOL.....	Instructor in Household Arts Subjects
MARY GREENWOOD.....	Instructor in Mathematics and English
.....	Instructor in Animal Husbandry
.....	Instructor in Forge and Bench Work
.....	Instructor and Stenographer
RALPH L. CROSMAN, Editor of Publications.....	Fort Collins, Colo.

SCHOOL CALENDAR

Registration of Students—

October 11, 1920; January 10, April 11, July 11, October 10, 1921	
Thanksgiving Recess.....	November 25, 26, 27, 1920
Christmas Vacation.....	December 24, 1920, to January 2, 1921
Final Examinations.....	January 5, 6, 7, 1921
Opening Second Term—Winter Session.....	January 10, 1921
Lincoln's Birthday.....	February 12, 1921
Washington's Birthday.....	February 22, 1921
Final Examinations.....	March 29, 30, 31, 1921
Graduation Exercises.....	April 1, 1921
Spring Vacation.....	April 1 to April 10, 1921
Opening First Term—Summer Session.....	April 11, 1921
Decoration Day.....	May 30, 1921
Final Examinations.....	June 29, 30-July 1, 1921
Fourth of July Vacation.....	July 1 to July 10, 1921
Registration Day, Second Term—Summer Session.....	July 11, 1921
Registration for Six Weeks' Review School.....	July 11, 1921
Six Weeks' Review School.....	July 11 to August 20, 1921
Colorado Day—Visitors' Day.....	August 1, 1921
Labor Day.....	September 5, 1921
Final Examinations at Close of Summer Session.....	September 27, 28, 29, 1921
Graduation Exercises.....	September 30, 1921
Fall Vacation.....	October 1 to October 9, 1921
Registration for Fall Term.....	October 10, 1921

**IT WILL NOT BE POSSIBLE TO ACCEPT ANYONE AT THE FORT
LEWIS SCHOOL THIS YEAR WHO HAS NOT MADE A WRITTEN REQUEST
TO BE ENROLLED, BEFORE OCTOBER THE SIXTH, 1920.**

Location and Environs of The Fort Lewis School

The Fort Lewis School is located near the foot of the La Plata mountains on an extensive reserve of 6,400 acres of agricultural, timber, and coal land owned by the State. Flowing through the reserve is the La Plata river, lined with stately cottonwoods and pines, contributing to the attractions of the valley and supplying from its liberal store, water for irrigating the crops on the reserve. The altitude is 7,600 feet and the climate is delightfully invigorating and healthful. Pure water, abundant sunshine, fertile fields, the best of Nature's playgrounds for recreation, all combine to make Fort Lewis a most healthful and pleasant place in which to pursue an education.

The nearest railroad station is at Hesperus, five miles north of Fort Lewis, on the Rio Grande Southern Railway. Durango, the county seat of La Plata County, is fourteen miles east of Hesperus.

Although the majority of the students come from this district, enrollment is by no means limited to them, students from all over Colorado, and from other states being eligible. Indeed, students from these sections are coming to Fort Lewis in increasing numbers each year, attracted by the agreeable, healthful climate, the scenic beauties of the district, as well as by the educational facilities of the school.

Courses are offered in Agriculture, Home Economics, and Teacher Training.

Buildings

There are twenty large buildings on the campus; all are commodious, convenient in arrangement, lighted by electricity, and supplied with run-



A Corner of the Porch—Girls' Dormitory



A Beefsteak Fry on the Banks of the La Plata



The Girl Students Serve Refreshments on Visitors' Day

ning water. They include the school building, boys' dormitory, girls' dormitory, dining hall, shops, power house, gymnasium, dairy buildings, five residences, barns, and a number of storehouses. The school building, dormitories, dining hall, office, shop and gymnasium are all steam heated.

Life at Fort Lewis

Because of the isolation of the school, life at Fort Lewis is in many respects more wholesome and conducive to profitable study than at many institutions. The students and faculty live virtually as one big family, and there are none of the undesirable distractions the proximity of a town so frequently supplies.

Nor is there any lack of diversions and recreation. The neighboring woods and mountains offer enticing nooks for picnics and expanses for hikes, there are tennis tournaments, baseball games and athletic fielddays, there is a student dance once a month, frequent parties, meetings of the Ammons Literary Society, and other forms of entertainment.

Students have breakfast at 6:45 and assemble in the classrooms and shops from 7:30 to 8:00. Dinner is served at 12 o'clock, and supper at 6. At 7:15 the students gather in the assembly hall, where they pursue their studies under the supervision of one of the instructors. They are dismissed at 9:30 and the lights are extinguished at 10:15.



May Day Is Always Celebrated at Fort Lewis



The Girls' Dormitory

Table Provided with Best Meats, Vegetables and Dairy Products

No matter to what idealistic heights the pursuit of knowledge takes us, the cravings of the inner man always accompany us, and we must come down to the commonplace subject of eating. Nothing is left to be desired in this respect at Fort Lewis. Students and instructors take their



A Girl's Own Room in the Dormitory

meals at a central dining room where are served home-butchered pork and beef, fresh vegetables from the garden, butter, cream, milk and buttermilk, fresh from the school's own dairy. The school is largely self-supporting from the standpoint of food.

Enrollment

While the attendance will be limited to forty boys and forty girls, a greater number will be accepted for a short time, and those who do not receive passing grades the first month and show no power to develop and do better work will be invited to return to their homes.

No one can be accepted who has not enrolled before October 1, 1920. Do not fail to make formal written application on an enrollment card or by letter as soon as possible.

Students who have done unsatisfactory work in the past should not plan to enter on October 11, 1920, unless their applications have been accepted by the principal of the school.



A Part of the Dairy Herd

*Course in Agriculture***FIRST YEAR**

First Term		Second Term	
Arithmetic	5	Arithmetic	5
Bench Work	(10)	Forge Work	(10)
Botany	5	Field Crops	5
English	5	English	5
Stock Judging	(6)	Breeds of Farm Animals	5
Military Drill	(3)	Military Drill	(3)

SECOND YEAR

Chemistry	3 (4)	Chemistry	3 (4)
Composition	5	Composition	5
Crop Raising	5	Irrigation and Leveling	2 (6)
Farm Mechanics	(5)	Farm Mechanics	(5)
Horticulture	(3)	Horticulture	5
Military Drill	(3)	Military Drill	(3)



Learning to Judge Live Stock

THIRD YEAR

Algebra	5	Algebra	5
Animal Breeding	5	Stock Feeding	5
Diseases of Farm Animals	5	Dairying	5
Soils	3	Farm Management and	
Soils	(4)	Accounts	4 (2)
Military Drill	(3)	Civics	5
		Military Drill	(3)

FOURTH YEAR

General History	5	General History	5
Geometry	5	Geometry	5
Literature (English)	5	Literature (American)	5
Physics	3 (4)	Physics	3 (4)
Economics	5	Graduation Presentation	3

Figures indicate number of recitation hours per week.

Figures in parenthesis indicate hours of practical work per week.

Rhetoricals required throughout all years and all courses.



Making Hay While the Sun Shines on the Reserve

Training Course for Rural Teachers

FIRST YEAR

First Term		Second Term	
Arithmetic	5	Arithmetic	5
Botany	5	Spelling, Writing and	
Geography	5	Orthoepy	5
Grammar	5	Geography	5
Physical Training	(3)	Grammar	5
		Physical Training	(3)

SECOND YEAR

American History	5	American History	5
Chemistry	3 (4)	Chemistry	3 (4)
Composition	5	Composition	5
Cooking or Sewing	(10)	Cooking or Sewing	(10)
Physical Training	(3)	Physical Training	(3)



The Girls Enjoy Their Physical Training Work

THIRD YEAR

Algebra	5	Algebra	5
Theory and Practice	5	School Management and	
Special Methods	5	School Law	5
Physiology and Hygiene	5	Special Methods	5
Reading Circle Books	5	Civics	5
Physical Training	(3)	Agriculture	5
		Physical Training	(3)

FOURTH YEAR

General History	5	General History	5
Geometry	5	Geometry	5
Literature (English)	5	Literature (American)	5
Physics	3 (4)	Physics	3 (4)
Economics	5	Graduation Presentation	3

Figures indicate number of recitation hours per week.

Figures in parenthesis indicate hours of practical work per week.

Rhetoricals are required throughout the year.



A Fertile Valley Near Fort Lewis—La Platas in Distance

Course in Domestic Science

FIRST YEAR

First Term			Second Term
Arithmetic	5	Arithmetic	5
Cooking	(10)	Cooking	(10)
Grammar	5	Grammar	5
Hand Sewing	(10)	Machine Sewing	(10)
Physical Training	(3)	Physical Training	(3)

SECOND YEAR

Advanced Cooking	(10)	Dressmaking	(10)
Chemistry	3 (4)	Chemistry	3 (4)
Composition	5	Composition	5
Horticulture	3 (2)	Horticulture	3 (2)
Physical Training	(3)	Physical Training	(3)



The Kitchen Equipment Is Modern and Up-to-date

THIRD YEAR

Algebra	5	Algebra	5
House and Household Management	5	Serving of Meals	2 (4)
Laundry	1 (4)	Dairying	5
Physiology and Hygiene	5	Civics	5
Physical Training	(3)	Physical Training	(3)

FOURTH YEAR

General History	5	General History	5
Geometry	5	Geometry	5
Literature	5	Literature	5
Physics	3 (4)	Physics	3 (4)
Economics	5	Graduation Presentation	5

Figures indicate number of recitation hours per week.

Figures in parenthesis indicate hours of practical work per week.

Rhetoricals are required throughout the year.

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Practical Work in the Cooking Laboratory



All Ready for the Game



The Basketball Team Is a Good One

Description of Courses

Agriculture

Field Crops and Crop Raising (First and Second Year).—Five periods a week for 24 weeks. Text—Wilson and Warburton. A study of wheat, corn, oats, barley, rye, and other cereals, forage crops, alfalfa, grasses, potatoes, sugar beets and other root crops. The judging, selecting, testing and care of seeds of the different useful plants, also the different plant diseases and pests and how to treat or eradicate them; the best cultural methods, the best methods of caring for harvested crops, and other useful facts concerning the crops grown on the farm are taught.

Stock Judging (First Year).—Three double periods a week for twelve weeks. Text—Purdue University Bulletin No. 29 and other texts. This is a study of the typical forms and characteristics of different types of farm animals. Animals are brought before the classes and the students apply the information gained from texts and instructors in pointing out the desirable and undesirable qualities of each.

Breeds of Farm Animals (First Year).—Five periods a week for twelve weeks. Text—Types and Breeds of Farm Animals, Plumb. This is a study of the characteristics of the various breeds of farm animals. The school is fortunate in having pure-bred Percherons, Herefords, Holsteins, Oxfords, Rambouillets, Duroc-Jerseys, in addition to good grade cattle and horses. One hundred fine stereopticon slides are available for class use.



Class in Field Crops Getting Practical Instruction in the Field



Practical Work on the School Farm

Botany (First Year).—Five periods a week for twelve weeks. Text —Plant Life and Plant Use, Coulter. A study of the seed and the resulting plant and flower.



Class in Horticulture at Work in the Field



The School Draft Horses

Horticulture (Second Year).—Texts in vegetable gardening and fruit growing are used. A study of the best vegetables to grow at high altitudes is made, together with the best soil, water and cultural conditions. Some



Filling the School Silo

time is given to the plant and insect enemies of vegetables and to the best methods and conditions of storage. During the second term fruit growing is pursued. The best planting and cultural conditions for strawberries, raspberries, currants, gooseberries and hardy tree fruits are studied. Insect pests and how to destroy them are given much attention. Attention is also given to packing, marketing and storing fruit.

Diseases of Farm Animals (Third Year).—Five periods a week for twelve weeks. Text—Common Diseases of Farm Animals, Craig. Instruction is given in the care of farm animals, how to properly care for them and guard against disease, and thus secure the best growth or greatest degree of usefulness. Also, how to recognize the common diseases, and how to nurse the afflicted animals. Special attention is given to hygiene and farm sanitation.

Soils (Third Year).—Seven periods a week for twelve weeks. Text—Soils and Soil Fertility, Whitson and Walster. Fee, fifty cents a term. A study of plant food, preparation of the soil, physical conditions of the soil that affect soil productivity, systems of rotation, manures and commercial fertilizers and similar topics is pursued.

Stock Feeding (Third Year).—Five periods a week for twelve weeks. Text—Feeds and Feeding, Henry and Morrison. The value of the different crops as feed for animals is studied and balanced rations for various classes of farm animals are then worked out.



Taking Soil Samples to be Tested in the Laboratory

Farm Management and Farm Accounts (Third Year).—Five periods a week for twelve weeks. Text—*Farm Management*, Warren. A study of the business of farming: Why farm, cost of farming, hired help, tenants; diversified and specialized, intensive and extensive farming, size of farm, capital, equipment, cropping system, marketing and farm records and accounts.

Dairying (Third Year).—Five periods a week for twelve weeks. In the dairy laboratory the students are taught the use of the Babcock tester, the lactometer, the moisture test for butter, the methods of handling milk and cream, the running and testing of various cream separators, ripening cream, churning, working, salting and printing of butter. The practical work is supplemented by lectures on composition of milk, care and use of milk and cream, separating and butter making.

Animal Breeding (Third Year).—Five periods a week for twelve weeks. The laws of heredity, variation and reversion, the principles of pure breeding, line breeding, in-breeding, cross-breeding, and grading up are taught under this head. The principal points to be observed in the practice of breeding, such as are incidental to selection and mating of stock, are emphasized.

Mathematics

Arithmetic (First Year).—Five periods a week for twenty-four weeks. Text—*Harvey's Practical Arithmetic*, Book II. Drill upon the four fundamental operations, factoring, lowest common multiple, tests for divisibility of numbers, common and decimal fractions, mensuration, denominate numbers with tables, United States land survey, standard time, longitude and time, percentage, profit and loss, commission and brokerage, taxes, trade discount, simple interest, bank discount, proportion and square root, measurement of hay, cisterns, silos and land. Much of the work in Arithmetic will be based upon practical farm problems arising from daily field work.



Milking Time in the Dairy



The Physics Laboratory Is Well Equipped

Algebra (Third Year).—Five periods a week for twenty-four weeks. Text—Wells and Hart. The fundamental operations: Factoring, fractions, simple equations, radicals and quadratics are studied.

Geometry (Fourth Year).—Five periods a week for twenty-four weeks. Text—Wells Plane Geometry.

Irrigation and Leveling (Second Year).—Two periods a week class work and six periods a week field work. The purpose of this course is to



A Corner in the Chemistry Laboratory

give actual practice in the use of the tape, compass, rod and level in solving such practical problems as measuring and determining land areas, finding the difference in elevation between two points, and surveying for the grade line of a ditch. Studies are made in the measurement of water. Drainage and general irrigation problems are discussed. Practical and useful methods of taking field notes and recording other data are taught.

Science

Physiology and Hygiene.—Five periods a week for twelve weeks. A study of the proper sanitary conditions that should surround school and farm houses, with special reference to sources of domestic water supply and the disposal of refuse. Physiology is studied for a good foundation for the work in hygiene and in home nursing.

Physics (Fourth Year).—Three hours of class or recitation work and four hours of laboratory work per week for twenty-four weeks. Text—Milliken and Gale (Revised). A study is made of simple machines, pneumatics, hydrostatics, heat, light, sound and electricity and their application to every-day problems. Fee, \$1.50 a term.

Chemistry (Second Year).—Three hours class and four hours laboratory a week for twenty-four weeks. Fee, \$2.00 a term. After studying the fundamental principles of pure chemistry, the application of chemistry to the farm and home life is taken up. The chemical properties and values of foods, and the chemical changes and effects due to cooking and baking are studied. The elements affecting plant growth and soil fertility are studied, and the value of manure and commercial fertilizer taken up.



Practical Chemistry in the Laboratory

Mechanic Arts

Farm Mechanics (Second Year).—Five periods a week for twenty-four weeks. Text—Davidson and Chase. A study of farm machinery and motors. The underlying principles of farm machines of various types, a detailed study of these machines and their care is made. The various forms of power available for farm use, such as windmills, gas engines, steam engines, water wheels and electric motors are studied and compared.

Farm Shop Work.—Ten periods a week for twenty-four weeks. Fee, \$5.00 per year. Materials that are used by students in making exercises for their own use will be charged to them at a cost in addition to the above fee. This course has been designed to give actual work with the tools and problems that are common on every farm. Farm Wood Working will take up a part of the time. Rope Splicing, Harness Repairing, and Farm Metal Work are exercises which will take up a portion of the time. Every student who takes farm work must know how to sharpen and care for the tools, and he should learn what tools are essential on the farm. We hope to make this one of the strongest courses in shop work that has ever been offered at Fort Lewis.



Learning to Run Their Own Ditch Lines



Wood Turning Is Interesting



Blacksmithing Will Help Any Farmer Boy

English and Literature

First Year.—Five periods a week for twenty-four weeks. Text—Reed and Kellogg's English Grammar. A study of the essentials of English Grammar and Elementary Composition. For the boys the work in composition consists largely of reports, outlines and descriptions of their field work.

Second Year.—Five periods a week for twenty-four weeks. Text—Progressive Course in English for Secondary Schools, Stebbins. A study of the correct forms in writing and speaking. Letter writing, written and oral compositions are given particular attention.

Fourth Year.—Five periods a week for twenty-four weeks. This is a course in English and American Literature in which the major portion of the time is given to the study of British and American authors.

Civics

Third Year.—Five periods a week for twelve weeks. Government, local, county, state and national, is studied. This is a course of training in citizenship.



At Target Practice



Samples of Work Done by Students in Wood Turning

History

United States (Second Year).—Five periods a week for twenty-four weeks. Text—School History of the United States, Mace. Particular attention is paid to the history of Agriculture and industrial development in the United States and to the methods of teaching history.

General History (Fourth Year).—Five periods a week for twenty-four weeks. Myers' General History is used.

Economics

Fourth Year).—Five periods a week for twelve weeks. Elements of Economics by Burch and Nearing is used as a guide.

Geography

Political and Physical (First Year).—Five periods a week for twenty-four weeks. A good text is used in each subject. Much attention is given to map study, industrial geography and methods of teaching geography.

Domestic Science

Hand Sewing (First Year).—Lectures are given in the selection and use of materials, methods of making and use of thread, needles, thimbles, and tape measures; instruction is given in the different kinds of stitches, seams, hems, buttonholes, patching, darning and care of clothing. Fee, \$2.00.

Machine Sewing (First Year).—The training in hand work followed by directions in the care and use of sewing machines and the making of simple garments or articles for the house. Fee, \$2.00.

Dressmaking and Millinery (Second and Third Years).—Ten periods a week for twelve weeks. The covering and lining of a simple frame, the sewing of braids, and the making of wire frames are taught; also a few of the useful stitches in embroidery, with suggestions for their combination and application. Each girl cuts out and makes two dresses, one of washable material, and the other of woolen material. Students are taught how to fit garments, also the careful finishing of seams, hems, and plackets. Fee, \$2.00.

Cooking (First Year).—Ten periods a week for twelve weeks. The courses in cookery include a study of foods, together with explanation of the reasons for certain practices in cooking, practical lessons in plain cooking, knowledge of fuel and the use of the kerosene and coal range. Neatness, system and speed (together with quietness), are strongly emphasized in the practice work of the students. Fee, \$2.00.

Advanced Cooking and Serving of Meals (Second Year).—Ten periods a week for twelve weeks. The study of the relative value to the body of



At Work in the Cooking Laboratory

different food nutrients, the planning and serving of meals suitable to varying conditions. Fee, \$2.00.

The House and Household Management.—House plans, house furnishings, sanitary consideration in heating, lighting and ventilation of houses, the water supply, disposal of household wastes, care of the house in general, the keeping of accounts, the week's routine, selection and care of supplies are studied.

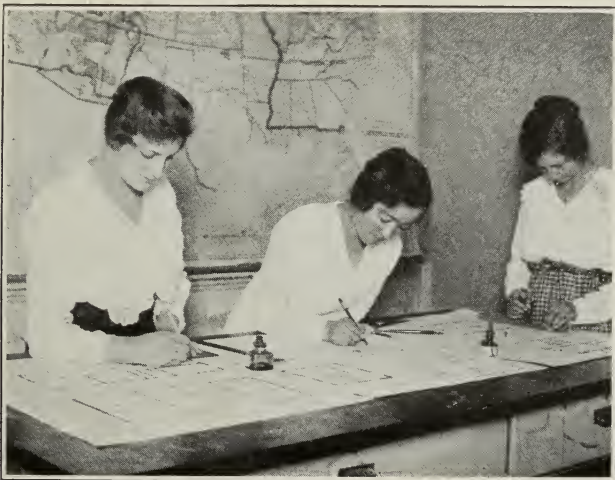
Laundry.—The students are taught the use, cost of, and care of laundry equipment, of various soaps, washing powders, bluing and starches. Practice is given in removing stains and in the laundering of such linens and garments as are found in the washing of the average household.

Pedagogy

Theory and Practice (Third Year).—Five periods a week for twelve weeks. Good text books, dealing with the problems of instruction, drill, testing, review, methods of assigning lessons, calling on pupils and teaching the elementary school subjects are studied.

Special Methods (Third Year).—Five periods a week for twenty-four weeks. The best methods of teaching reading, arithmetic, language, writing, spelling, geography and history are studied, discussed and illustrated.

School Management and School Law (Third Year).—Five periods a week for twelve weeks. A study of the physical environment of the pupil, general sanitation, the teacher, his preparation and his relation to the school board, parents and pupil, the school program, incentives to study, examinations, promotions and moral training. Much time is given to study of the school laws of Colorado.



Making Their Own House Plans

Regulations

Students must secure permission before leaving the grounds. All students must have permits from home to go to town.

The use of tobacco is not permitted.

Students must not have firearms in their possession.

All students meet at the central study hall at 7 o'clock each evening for study, entertainment or attendance upon a religious or literary program.

No man or boy may go to the girls' dormitory to call upon a girl there when an instructor is not present.

Boys may call at the girls' dormitory to visit on Saturday evening, Sunday afternoon and Sunday evenings, when there are no meetings in the school house and when there is an instructor present.

When the lights "blink" all students must go to their respective rooming places.

No student may go off the campus without having made satisfactory arrangements with the principal of the school or the matron of the dormitory.

Any student who fails to take his part in any school program on which he has been placed, will take his part at 1 o'clock p. m. the following Wednesday. The literary work is required as much as any other school work.

No student will be excused from attending day and evening meetings at the school house unless a written request, with reasons for desired absence from meeting, is filed with the principal, or in case of sickness, of which the principal has been advised.

There must be no games going on when a public meeting is in progress at the school house.

Fees and tuition must be paid for the six months in advance. Board and room must be paid for one month in advance. There will be no refund for board for an absence of a day or two. There will be no refund of room rent so long as the room is held, and no reduction in fees and tuition to those who come later or leave before the close of school.

Regular transportation charges are made for taking students and others to and from Hesperus and Durango or other places.

No student will be graduated from the Teachers' Course who does not hold a county teachers' certificate, or if too young to actually receive a certificate the equivalent grades secured as a result of a county teachers' examination.

Students may leave the grounds with members of their own families or with chaperones acceptable to the principal of the school.

Young men who wish to come to the school to visit students must first secure permission of the principal.



**Two of the Experimental Plots on the School Farm, Demonstrating
the Productivity of the Fertile Soil**

THE FORT LEWIS SHORT COURSE

For High School Students, Teachers and Others

July 11, to August 20, 1921

The course is designed for those who wish to secure credits that will be accepted at the Fort Lewis or the Colorado School of Agriculture, in Colorado High Schools and for those who wish to take the county teachers' examinations.

Special classes under special teachers will be organized in the subjects named below, provided there have been at least four applications for the subject BEFORE July 1, 1921. No summer school student will be expected to take fewer than two nor more than four subjects during the Short Course.

If it is your desire to enter the school in July, do not fail to notify the principal of the school before July 1, naming the subjects in which you wish classes formed.

Register of Fort Lewis Graduates

1914

McCulloch, Robert
Reeder, Orin

1915

Fredlund, Reuben
McCulloch, Clay
Michael, Ray

1916—March

Pollock, Bertha
Pollock, Ethel
Roubidoux, Raymond
Hammond, Platt
Fielding, Leonard

1916—September

Baker, C. H.
Hunt, Alice
Lundquist, Albert
McNamee, Laughlin
Snyder, T. J.
Snyder, Paul
Sullivan, Frank
Turner, Willie
Willis, Edward

1917—September

Anderson, Esther
Skelton, Arlene

1918—September

Eastman, Arthur
Parker, Elwin
Snyder, Glen

1919—September

Burnham, Bessie
Dennison, Catherine
Caviness, Erma
Evelyn, Hight
Hunt, Roberta
Wiser, Lena
Walker, Ruth

1920—April

Brown, Earl
Burnham, Thelma
Greer, Harry
Kennedy, Lucile
Snyder, Clarence
Taylor, Gladys

Estimated Expenses

Board and room for thirty days.....	\$30.00
Tuition to non-resident students, per month.....	5.00
Text books and stationery for six months, about.....	15.00
Entrance fee	5.00
Forge and bench fees—six months.....	5.00
Cooking and sewing fees, each.....	\$2.00 to 2.50
Science fees, each.....	1.50 to 2.00
Laundry—May be sent home or to Durango laundry.....	
Property deposit	3.00
Lecture, concert, athletic fees for the year.....	\$3.00 to 5.00

Gymnasium suits, tennis shoes and other clothing and bedding not included in the above named prices.

I plan to enter the Fort Lewis School of Agriculture on.....

..... 1920. I hope to grade diploma.

Please reserve a room for me.

Name

Address

Date..... 1920.

Course selected.....

allowing boys and girls may wish to attend:

I think

Address

Name

Published Monthly by
Colorado Agricultural College



Entered as Second Class Matter,
Postoffice, Fort Collins, Colorado, April 28, 1915, at the
Act of August 24, 1902. Under the

C
L NaW
1921

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Supplement to

Colorado Agricultural
College Bulletin



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Colorado Agricultural
College Bulletin







Lone But Sturdy Monarch—Mt. Ypsilon in the Distance



Long's Peak From Flat Top—the Peak Is 14,271 Feet Above Sea Level
Photo by F. J. Francis, Estes Park, Colorado



Horseshoe Park, Estes Park,
From Fall River Road

Photo by F. P. Clatworthy

The Top O' the World

The top o' the world!

What experiences that phrase inspires!

To stand on the top of the world and realize that all else is beneath you—that you are literally miles above the nearest human habitation, that nowhere can man reach greater heights and still keep his feet on earth, that is a sensation in itself.

But when your particular top of the world rears itself, a towering peak, almost straight into the clouds so that you are sensible of your eminence as your eye circles the horizon and you see for fifty or a hundred miles in every direction, actually looking over the very tops of mountain peaks that are themselves miles above sea level, a panorama of mountain ranges, rolling plains, thriving cities, and nestling villages—well, you do not have to use your imagination to realize that you are really a-top of things.

A day's ride and climb from Fort Collins is the top of the world—Long's Peak, 14,271 feet above sea level.

Of course, it is not the very top—there are higher peaks—but it satisfies the desire of the most zealous, and, best of all, it affords one of the most thrilling climbs in the Rockies—a climb that reminds you of the perilous ascent of the Alps.

Long's Peak is in the Rocky Mountain National Park (Estes Park). Excursions to the park will be regular week-end features of the Summer Sessions at the Agricultural College this summer, and at least one trip will be made to the top of Long's Peak.

Shall we count you in?

The sun is barely above the "edge of the world" out there on the plains east of us when the big automobiles carrying twenty passengers each leave the College grounds. It is a fresh, clean, new day, such a new day as we never see except in Colorado, and the air has a flavor and intoxicating tang that we have never before tasted. As the big cars move out and point their noses toward the west, we are glad we are alive, and can hardly realize that by noon we shall be almost at the foot of Long's Peak, whose lofty point we can see back behind the foothills and the first range.

A rare day is ahead of us, a day in which we shall forget that it is mid-July or mid-August, as we draw nearer the snow-clad ranges. Ere night we may need sweaters, and extra clothing will be essential on top of the peak.

We ride for sixteen miles along the foothills and then we plunge into the mountains through the mouth of Big Thompson Canon—and we get our first thrill. For several miles we ride through a narrow, rock-walled canon whose walls rise perpendicularly hundreds of feet in the air, whose sharp turns cause us to wonder if we have not suddenly reached the end of the road, so closely does the rocky wall loom directly ahead, while alongside

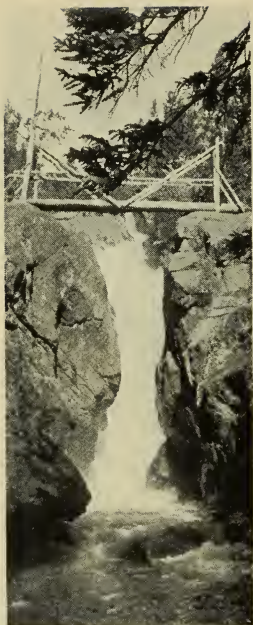


Photo by F. P. Clatworthy
Chasm Falls

our car, first on the left and then on the right, flows the Big Thompson river, dashing and tumbling, or placidly moving in deep, silent pools.

As we leave the canon the scene changes, and we ride for an hour or more along the course of the Big Thompson, with more gently sloping, now rugged and rocky, now wooded, hillsides at either side. The vista constantly changes, there is a new scene of beauty and rugged grandeur at every turn in the road, and now and again we glimpse, ahead of us, for a few seconds only, a snow-capped peak which represents our objective and which, to our delight, is growing ever nearer and nearer. At last, just as we are wondering how much further it is, the car rounds a turn and—

We are there!

We are entering at one end a broad, almost circular, mountain valley or park, bordered on every side by towering peaks which rear their stately heads to the clouds like sentinels stationed there to keep out all intruders from the outside world who would come to distract us from our enjoyment of our isolation—and we feel secure, detached, free, our desire to roam, to climb, to ride, to see the view from yon peak unhampered. And well may we feel thus. We are forty-five miles from civilization, approaching a little village which, though it can be reached only by automobile or aeroplane, possesses modern hotels, electric lights, attractive stores, a church,

a theatre, and delightful little tea shops and eating houses.

But those of us who are going to climb Long's Peak must hurry. While the others remain in the village, to take rides over the "High Drive," up the new "switch-back" auto road along the Fall River, to go horseback on a trip to Hallet's Glacier, Fern Lake, or Mirror Lake, or to go trout-fishing, we are off to Long's Peak Inn, the rustic resort of Enos Mills, naturalist, author, and the dean of mountain guides par excellence.

The ride to the Inn is in itself an adventure, taking us, as it does, along beautiful shaded drives up and down wooded slopes, and along rugged, rocky mountainsides where we see stretched before us miles away and almost miles below, the valley we have left. Through the wooded stretches the hillsides are a riot of color with the columbine, the Indian paint brush, and the other bright-hued, delicately shaded flowers found only in high altitudes.

Arrived at the Inn, we go early to bed, for we must be up betimes in the morning.

Before it is yet daylight, and as we are dressing, we hear our horses brought into the hotel yard, and after a hurried breakfast, just as the first streaks of color appear in the east and the shadows of night are disappearing, we are off for Long's Peak. We ride to the Boulder Field, where we must abandon our mounts and thenceforward climb.

At every turn of our path new vistas greet our eyes and new exhilaration fills our veins as the altitude increases. We climb steadily, the sturdier giving a hand to the weaker, passing here over a narrow trail perilously near, in the eyes of the novice, the edge of a thousand-foot precipice, but really only just dangerous enough to be thrilling and exciting. We pass over snowbanks, we may even encounter a snowstorm, we go through crevices, up steep inclines, and at last someone 'way ahead and apparently as out of breath as we, shouts:

"The top!"

Spurring our lagging feet, we hurry to join our companions in their exclamations of awe, wonder, and delight at the vistas spread before them. Eastward we see, as we look over the top of the first range, the plains,

stretching in limitless expanse beyond the range of human vision, lake dotted, rolling—a great bowl on the edge of which we stand, with the opposite edge seemingly level with our eyes, an illusion caused by our elevation.

Turning our faces to the west we see the opposite extreme of Nature's handiwork—the snowy range of the Continental Divide, the “backbone of the continent”—extending as far as we can see northward and equally as far southward, and seeming, because of our eminence, below us! Dropping our gaze to the middle foreground we see a vast panorama of landscape extremes rarely the privilege of man to contemplate at one time and from one vantage point. It is a picture that includes the soft greens and browns of sequestered, sheltered valleys, that is spotted here and there with diamonds that are little lakes glistening in the sun, that has as a component part of its scheme of beauty heavily wooded slopes and lower ranges of pines, spruce, and fir, that has for an intermediate background towering, massive, bare, rocky ranges and peaks so far above sea level that vegetation cannot grow upon them, and that has as a final touch of the Master Artist who painted it, a dazzling, glittering, scintillating border-background of snow-covered ranges. The top of the peak is almost flat and almost a quarter of a mile across. From every point at which we look over the edge there is spread before us a new, breath-taking, almost perpendicular perspective.

If the day is clear we can see, our eyes unaided by a glass, Pike's Peak, over a hundred miles away, and enjoy the satisfaction of knowing that we have scaled a higher peak of the Rockies than that famous mountain.

We spend an hour or two “on top,” sign our names to the roll in the brass cylinder placed at the highest point of the peak by the Colorado Mountain Club, have lunch, and then start back, for it will take the rest of the afternoon to return to the Inn.

When we rejoin our party in the village they, too, have wonderful tales to tell of their trips, and we swap stories as our big autos roll out of the village on the return trip until the new beauties of the Big Thompson Canon, beauties and wonders we had not seen going up, distract our thoughts and speed the minutes until we roll again into the foothills country and the chauffeur “lets her out” for our final dash home.

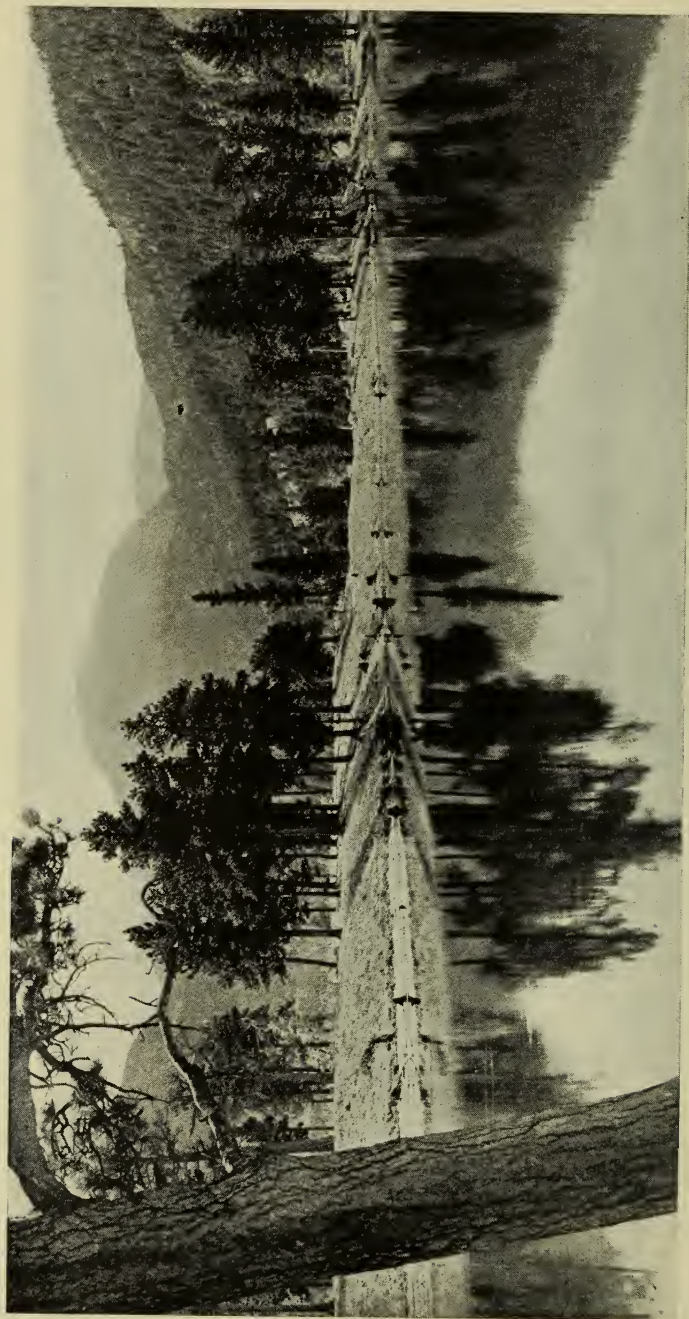
But you must come with me to Estes Park if you would really know its beauties and enjoy the experiences of which I have tried to tell you.

Will you?

I thought so!



Photo by O. W. Bechtel
Bechtel Falls



Towering Peaks That Lift Their Heads Into the Very Clouds—Copeland Lake (Estes Park) in the Foreground

Photo by F. J. Francis



Photo by O. W. Bechtel

The Top O' the World



A FEW OF THE VISITING MEMBERS OF

1—Thomas Nixon Carver. 2—Irene Warren. 3—Mary Schenck Woolman. 4—M. V. Stone. 5—Timothy Stone. 6—Emily Griffith. 7—C. Ag.



OF OUR SUMMER SCHOOL FACULTY

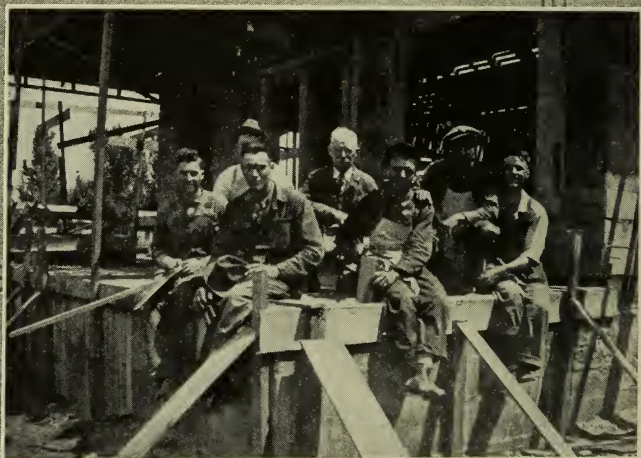
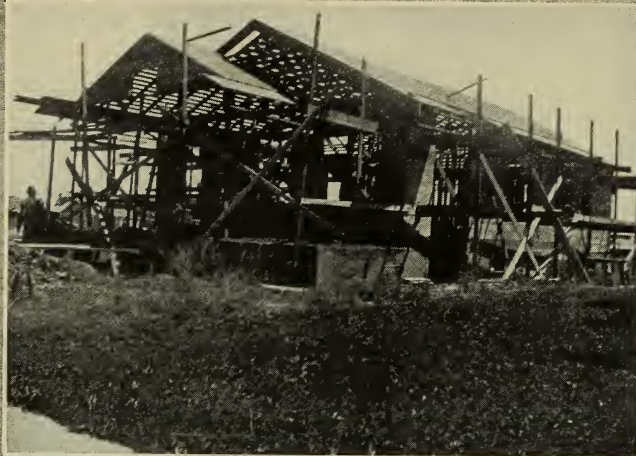
4—Vernon Shea. 5—Katharine L. Craig. 6—Ben B. Lindsey. 7—Louis M. Roehl. 8—John
 10—Adams Puffer. 11—George A. Works



Enticing Walks and Drives With an Abundance of Shade Are Numerous on the Campus



Guggenheim Hall of Household Arts Is the Stately Guard at the North Campus Entrance



Our Carpentry Class Builds a Bungalow Each Summer for the Practical Experience

The framework practically completed

Inspecting the finished house

They enjoyed a rest that afternoon

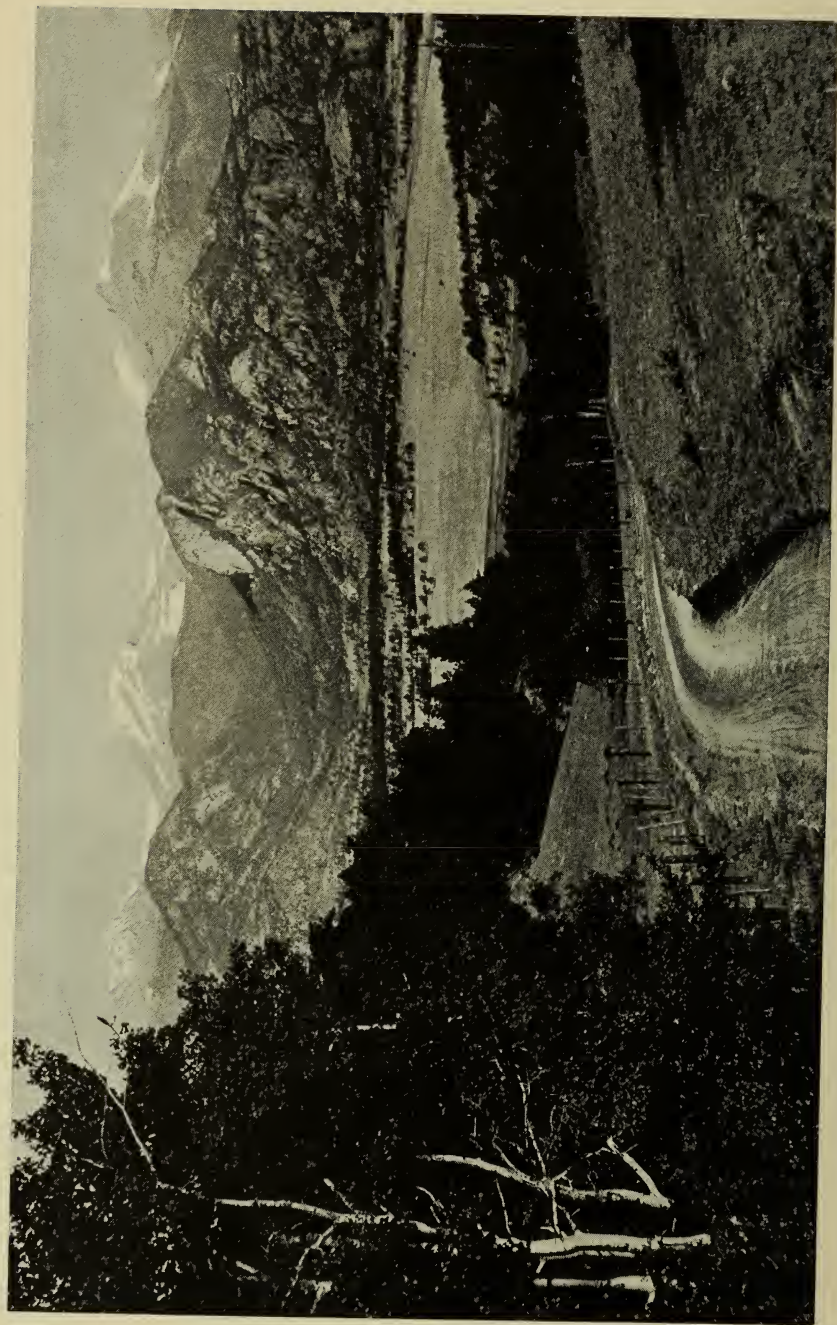


Our Home Economics Laboratories Are Completely Equipped With the Most Modern Apparatus

First aid work is interesting

Making their own garments

In the cooking laboratories



Estes Park From Park Hill—One Glance Makes You a Lover of the Park

Photo by F. P. Clatworthy



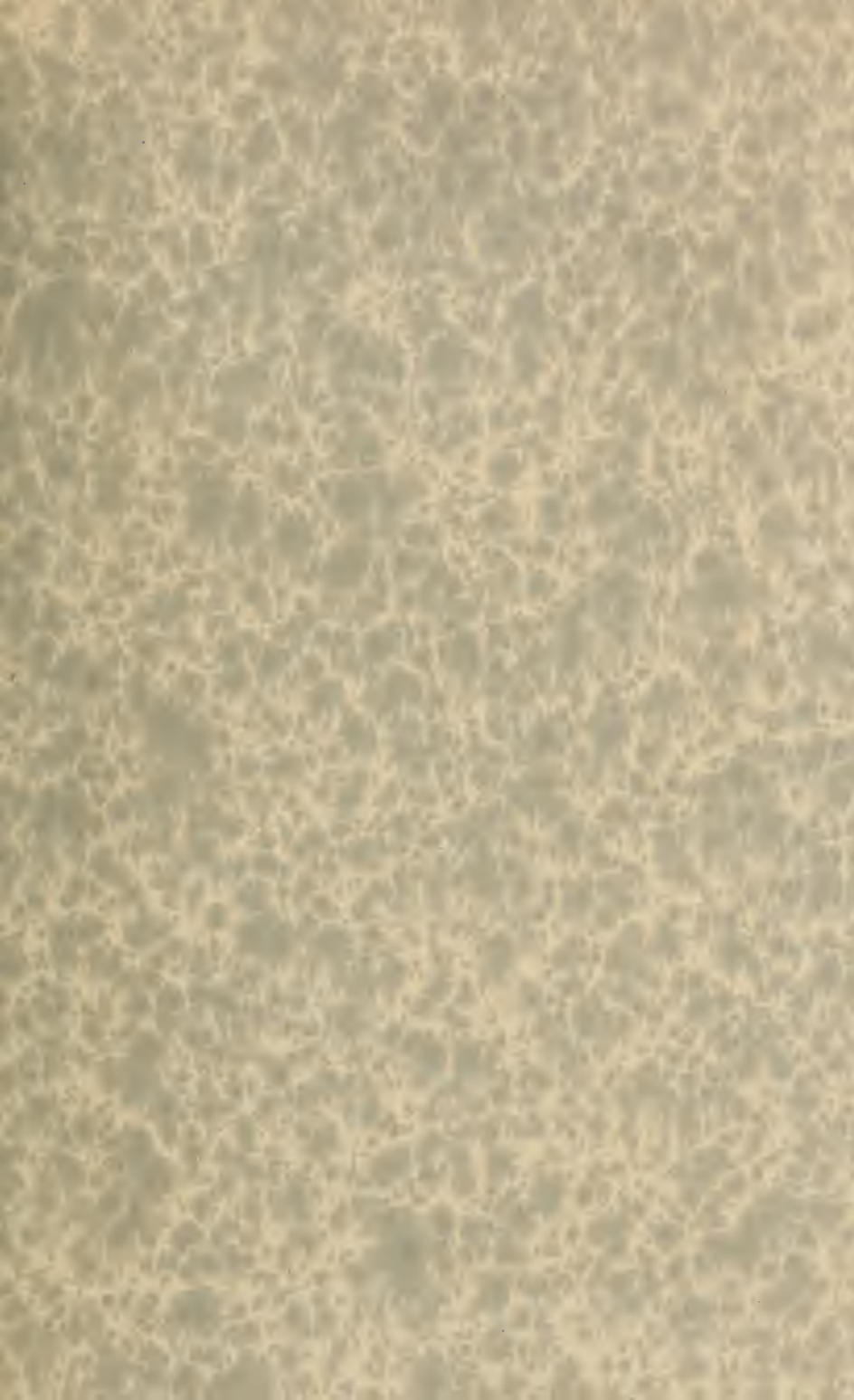
Loch Vale, Estes Park—One of the First Places We Visit on Our Week-End Tours

Photo by F. J. Francis



Photo by O. W. Bechtel

"First on the Right, Then on the Left, Flows the Big Thompson River, Dashing and
Tumbling, or Placidly Moving in Deep, Silent Pools"





Published monthly by the

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